SANYO

Colour Television

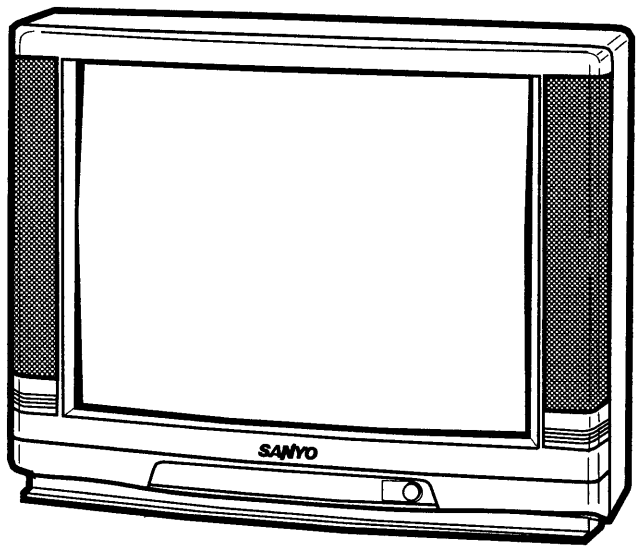
Service Manual

CB6649

Model C28EH25NB

(U.K)

Service Ref. No. C28EH25NB-00



Specifications

Power source	AC 220~240V 50Hz
Television system	System I
Colour system	PAL
Receiving channel	UHF 21~69
Aerial input impedance	75ohm
AV terminal	
AV1	: 21-Pin SCART Terminal
AV2	: 21-Pin SCART Terminal
AV3	: Cinch Terminal
Sound output	12 watts X2
Picture tube	70cm diagonal, 110 degree
(Visible picture diagonal)	66cm
Dimensions	740(W) X 585(H) X 494(D)mm
Weight	36.5 Kg

PRODUCT CODE
111320602
ORIGINAL VERSION
Chassis No. EB3-A

Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

Note
This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

Part No. SKSM0067

SAFETY PRECAUTION

1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.
2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.
3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc.

Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

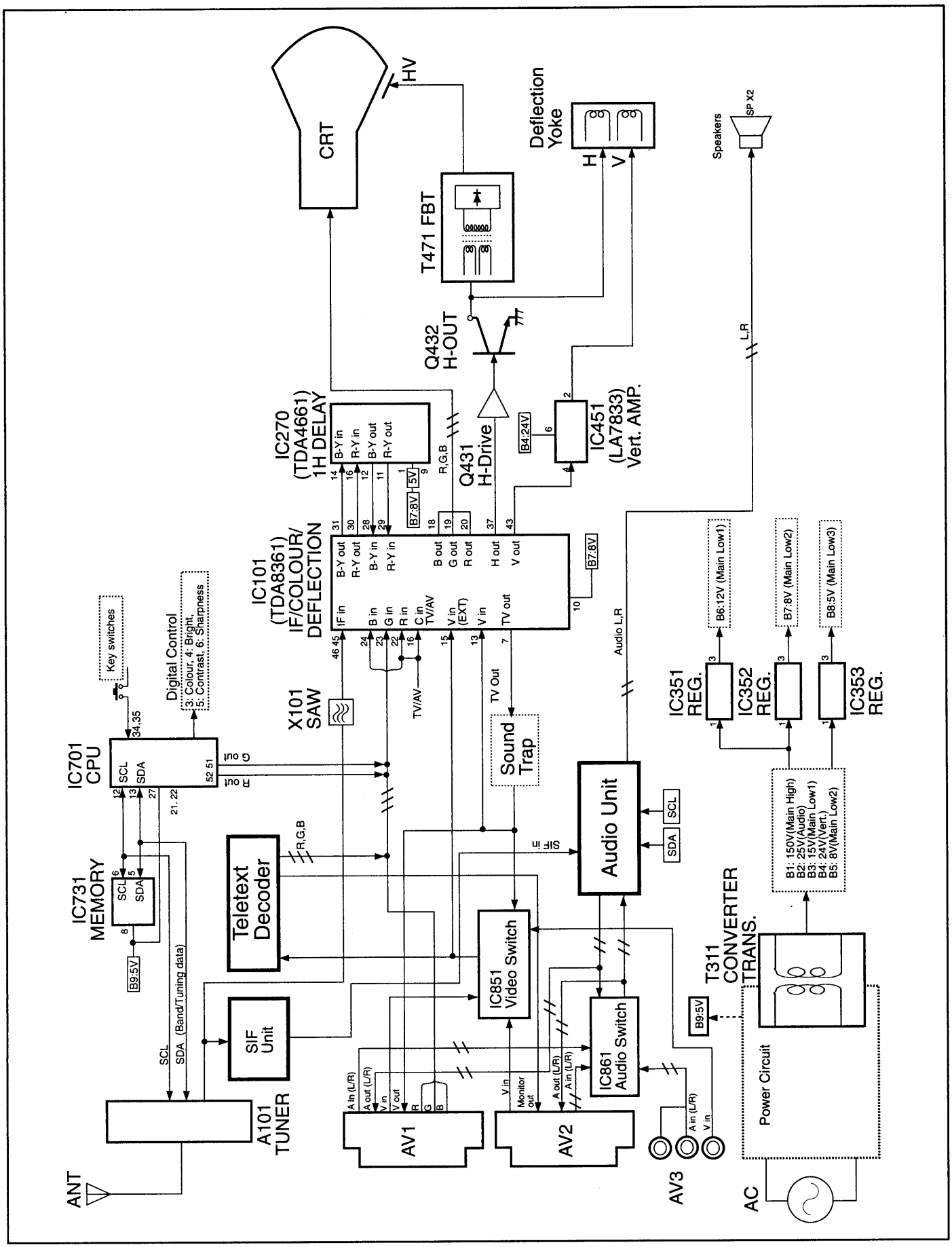
The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark ⚠. No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark ⚠.

BLOCK DIAGRAM

This is a diagram for all models and therefore differs slightly from the actual block diagram.



CIRCUIT DESCRIPTION

1.POWER SUPPLY

The power supply circuit of the EB3-A chassis is composed of a rectifier smoothing circuit, an oscillation circuit, a control circuit and an output rectifier circuit. The AC input voltage is full-wave rectified by the rectifier smoothing circuit, and an unstable DC voltage is generated at both terminals of the smoothing capacitor C307. This voltage is input to the oscillation circuit. The oscillation circuit is provided with a blocking oscillator circuit that switches the switching FET Q301 ON and OFF, and an oscillation frequency and a duty square wave pulse are generated in the input windings according to operation of the control circuit. A square-wave pulse whose size is dependent on the turn ratio of the input and output windings is obtained in the output winding. This is rectified in the output rectifier circuit, and the desired DC voltage is obtained.

2.IF & DEFLECTION (TDA8361)

The IF output signal from the tuner passes through the SAW filter, and it is input to pin45 and pin46 of IC101. The signal input to the IC passes through the IF amplifier, video detection and video amplifier circuits and is output from pin7 as a composite video signal. And after this signal is converted to impedance at Q122, supplies to the video and chroma amplifier stages.

The sync.-separation circuit separates the video signals applied to pin13(internal video signal) or pin15(external video signal) to vertical- and horizontal-sync. signals respectively. The horizontal oscillator requires no external components and is fully integrated. The oscillator is always running when the start-pin36 is supplied with 8V. Horizontal drive signal is output from pin37. VR401 is for adjustment of the horizontal centring. The separated vertical-sync. signal from sync. separation circuit passes through the vertical-separation circuit, and applied to trigger divider circuit. The horizontal oscillation pulse and input vertical sync. pulse are monitored by the trigger divider circuit, and switching 50Hz and 60Hz system, the vertical amplitude automatically adjusted for 50Hz and 60Hz. The output signal from the trigger divider is triggered vertical oscillation circuit consisting of C401, R402 and pin42, and vertical drive pulse is output from pin43. VR451 is for changing the amount of AC feedback applied to pin41 and for adjustment of the vertical amplitude.

3.VIDEO CHROMA & R.G.B. (TDA8361)

The composite video signal output from the pin7 of IC101 passes through Q122/Q124, and it is supplied to pin13. The external video signal output from SCART is supplied to pin15. The video signal input to pin13 or pin15 is separated to luminance (Y) signal and chroma signal in IC101. These pins are used in common with H/V-sync. separation input. The peaking of Y signal is adjusted by DC voltage of pin14. ("SHARPNESS" control) The chroma signal is divided into R-Y and B-Y chroma signals, demodulated in IC101, and output from pin30 (R-Y) and pin31 (B-Y). These chroma signals pass through the 1H delay line circuit (IC270), and they are input to pin29 (R-Y) and pin28 (B-Y). These R-Y/B-Y signals pass through RGB matrix circuit and RGB selector circuit of IC101. The internal RGB signals are generated in RGB matrix circuit and the RGB selector, consisting linear amplifiers, clamps and selects either the internal RGB signals or the external RGB signals input from pin22(R), pin23(G), pin24(B). Selection is controlled by the voltage at the RGB switch control (pin21) and mixed RGB modes are possible since RGB switching is fast. The RGB switch also functions as a fast blanking pin by blanking the RGB output stages; here internal and external RGB signals are overruled. The colour gain is controlled by DC voltage of pin26. ("COLOUR" control) The contrast control voltage present at pin25, and the brightness control voltage present at pin17 controls DC level of RGB signals. The RGB signals are finally buffered before being available at the RGB output pins [pin20 (R), pin19 (G), pin18 (R)].

4.AUDIO OUTPUT(TDA7263M)

The audio signals output from the audio unit are input to pin1(L) and 5(R) of IC581 and passes through the pre-amplifier circuit and drive circuit, after which it is input to the audio amplifier. The audio amplifier is an SEPP (single-ended, push-pull) OTL type and output to pin8(R) and 10(L) to directly drive the speakers.

5.VERTICAL OUTPUT (LA7833)

An IC (LA7833) is used for the vertical output circuit in this chassis. The vertical drive pulse from pin43 of IC101 is input to pin4 of IC451. This pulse drives IC451, and vertical scanning is performed. In the first half of scanning a deflecting current is output from pin2 and passes through the following path:

Vcc(B4) → D451 → pin3 → pin2 → DY → C461 → VR451/R459. An electric charge is then stored in C461. In the last half of scanning the current path is C461 → DY → pin2 → pin1 → VR451/R459 → C461. In this way, an amplifying sawtooth waveform current flows directly to DY to perform electron beam defection. Next, in the first half of the banking period the vertical drive pulse suddenly becomes OFF, and in order to reduce the current flowing to DY, the current path becomes as follows by the inductance of DY:

DY → pin2 → pin1 → VR451/R459 → C461 → DY. Also, when the charge of DY has dissipated, the current path becomes Vcc24V → pin6 → pin7 → C452 → pin3 → pin2→ DY → C461 → VR451/R459, and when the prescribed current value is reached, the vertical drive pulse becomes ON. This completes one cycle.

6.HORIZONTAL OUTPUT

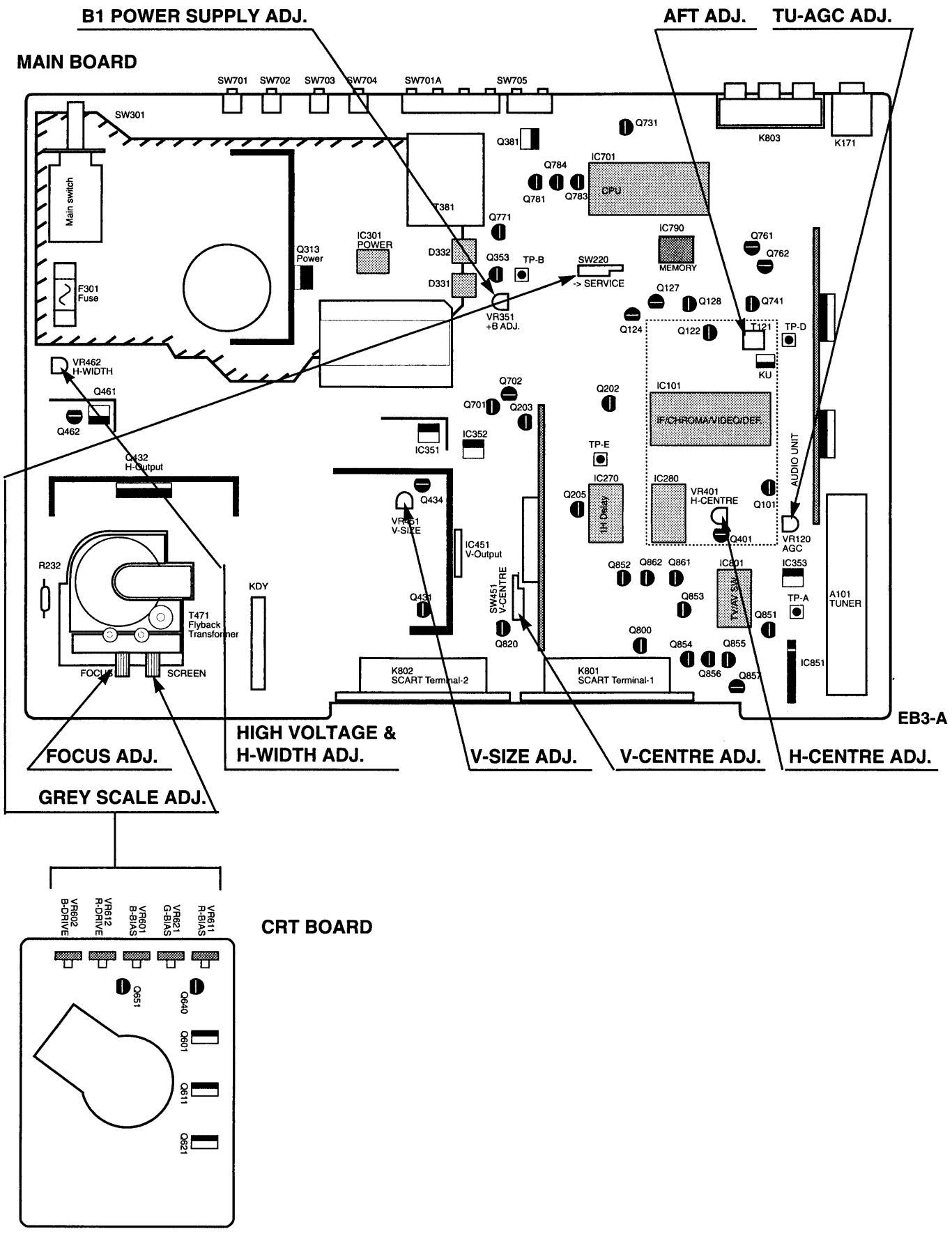
A horizontal oscillation signal is output from pin37 of IC101 and switches the drive transistor Q431. This switching signal is current amplified by the drive transformer T431 and drives the output transistor Q432. When Q432 becomes ON, an amplifying current flows directly to DY through C441/442 → DY → Q432 → GND, and defection is performed in the last half of the scanning period. Next, when Q432 becomes OFF, the charge that had been stored in DY up to that point releases a resonance current to the resonant capacitors C420 and C423 and charges them.The current stored in C420 and C423 is then flowed back to DY, and an opposite charge is then stored in DY. This opposite charge then switches the dumper diode in Q432 ON, the resonance state is completed, and an amplifying current is then flowed again directly to DY through the dumper diode. By this means, deflection in the first half of the scanning period is performed, and when Q432 becomes ON at the end of the first half of the scanning period, deflection during the last half is begun, thus completing one cycle.

7. CPU

Pin description

Pin1: H-sync. input (Horizontal pulse for OSD)
Pin2: V-sync. input (Vertical pulse for OSD)
Pin3: Colour control output
Pin4: Brightness control output
Pin5: Contrast control output
Pin6: Sharpness control output
Pin7: Tint (GND)
Pin8: TV/AV output (L:AV mode)
Pin9: AV mode selection output-A
Pin10: AV mode selection output-B
Pin11: National select option
Pin12: I²C bus SCL (Serial clock for memory)
Pin13: I²C bus SDA (Serial date for memory)
Pin14: Not used (+5V through pull up resistor 22K)
Pin15: Ident signal input (L:No signal)
Pin16: R/C signal input
Pin17: AV1 Scart control signal input (VTR play:L)
Pin18: AV2 Scart control signal input (VTR play:L)
Pin19: Ignor output
Pin20: 50/60Hz output
Pin21/22: GND
Pin23: Supply Ground
Pin24: Oscillator input for CPU
Pin25: Oscillator output for CPU
Pin26: Supply Ground
Pin27: Power supply(+5V)
Pin28: Oscillator output for OSD
Pin29: Oscillator input for OSD
Pin30: Reset input
Pin31: Protect signal input (L:Power circuit defects)
Pin32: Not used(GND)
Pin33: AFT signal input
Pin34: TEXT/16:9 SELECT OPTION
Pin35: Key scan 1
Pin36: P-ON(TEXT)
Pin37: S-VHS output
Pin38: GND
Pin39: Not used
Pin40: Not used
Pin41: NEG/POS select (+5V through resistor 22k:NEG)
Pin42: Not used (GND)
Pin43: 16:9/4:3 switch output
Pin44: Not used (GND)
Pin45: Not used (GND)
Pin46: Not used (GND)
Pin47: Mute output in no picture(FTZ mute)
Pin48: Power ON/OFF output (H:ON)
Pin49: Blanking output for OSD
Pin50: Not used (Open)
Pin51: Green output for OSD
Pin52: Red output for OSD

SERVICE CONTROL ADJUSTMENT



B1 POWER SUPPLY ADJUSTMENT

1. Set VR351 to be mechanical centre before pressing the main switch.
2. Tune the receiver to PAL circular pattern.
3. Set brightness and contrast controls to normal.
4. Connect digital V-meter to test point "TP-B".
5. By using VR351, adjust voltage to 150 ± 0.5 V.

AFT ADJUSTMENT

1. Tune the receiver to the clearest station.
2. By using T121, adjust AFT to obtain the best picture.

AGC ADJUSTMENT

NOTE: ***Do not attempt this adjustment with weak signal.***

1. Tune the receiver to the clearest station.
2. Set AGC VR(VR120) in direction which causes snow noise to appear, then in the opposite direction until snow noise just disappears.

GREY SCALE ADJUSTMENT

[SCREEN VR ADJUSTMENT]

1. Tune the receiver to the white pattern.
2. Set brightness control to display centre and contrast control to normal.
3. Set SW220 to "SERVICE" position.
4. Set VR602 and VR612 to be mechanical centre.
5. Turn VR601, VR611 and VR621 fully counter-clockwise.
6. Set screen VR for one colour to be just visible.

[BIAS VR ADJUSTMENT]

7. By using VR601, VR611 or VR621, adjust line to be white.
8. Set SW220 to "NORMAL" position.

[DRIVE VR ADJUSTMENT]

9. By using VR602 and VR612, adjust white balance.

HIGH VOLTAGE & WIDTH ADJUSTMENT

[HIGH VOLTAGE ADJUSTMENT]

1. Tune the receiver to PAL circular pattern.
2. Set brightness and contrast controls to maximum.
3. Connect digital V-meter to both terminals of R232(left side)(+) , and high voltage meter to CRT anode.
4. Confirm high voltage to be 26.0 ± 1 KV at beam current 1.3, and less than 29.0 KV at 0 beam current .

[H-WIDTH ADJUSTMENT]

5. Adjust VR462 to obtain proper H- width.
6. Reconfirm high voltage.

H-CENTRE ADJUSTMENT

1. Tune the receiver to circular pattern.
2. Adjust H-centre by using VR401.

V-CENTRE ADJUSTMENT

1. Tune the receiver to circular pattern.
2. Adjust V-centre by using SW451.

V-SIZE ADJUSTMENT

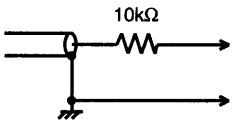
1. Tune the receiver to circular pattern.
2. Adjust V-size by using VR451.

FOCUS ADJUSTMENT

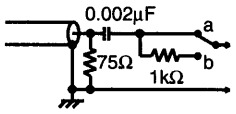
By using FOCUS VR, adjust focus control for well scanning lines.

CIRCUIT ALIGNMENT

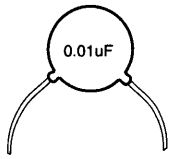
VIF ALIGNMENT



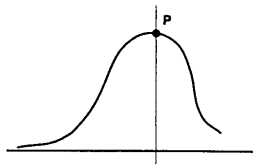
Input probe



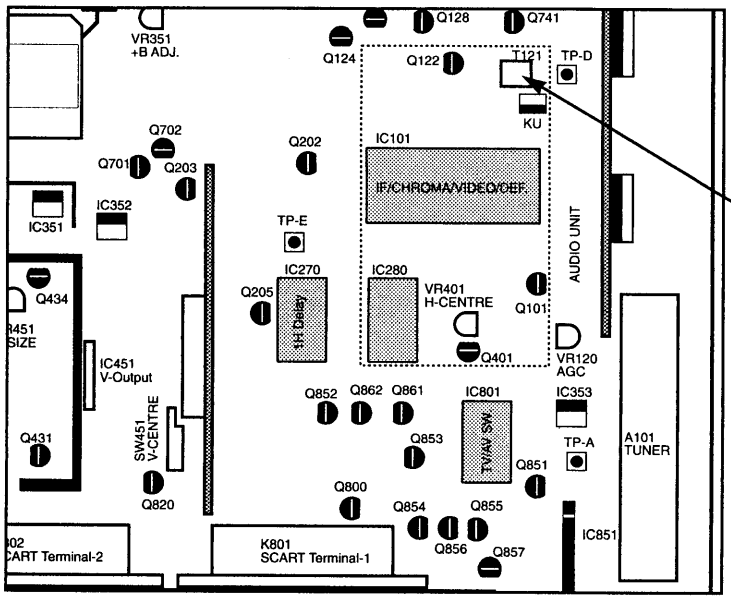
Output probe



Tool-A

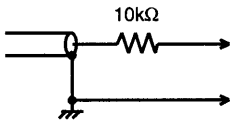
		DETECTOR ADJUSTMENT		
SETTING	DC 15V	IC351-pin 1		
	DC 5V	Q381-Emitter		
	AGC voltage (4.3-4.5V)	IC101-pin 48		
	Output probe	IC101-pin 45 (Side b)		
	Input probe	IC101-pin7		
	Tool-A	IC101-pin46		
	System SW	I		
	Sweep ATT	20		
Adjustment		By using T121, adjust "P" to be maximum amplitude.		
VIF waveform				

MAIN BOARD

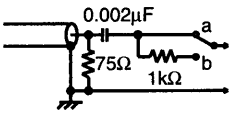


Detector adjustment

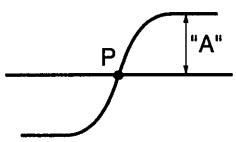
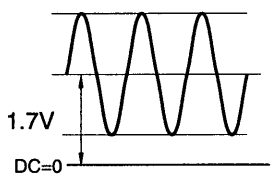
SIF ALIGNMENT



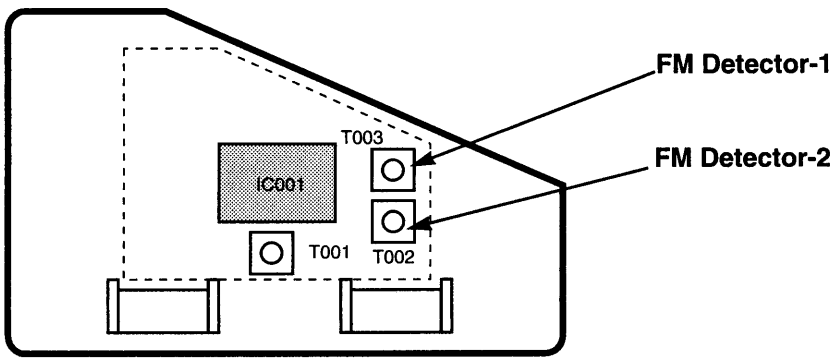
Input probe



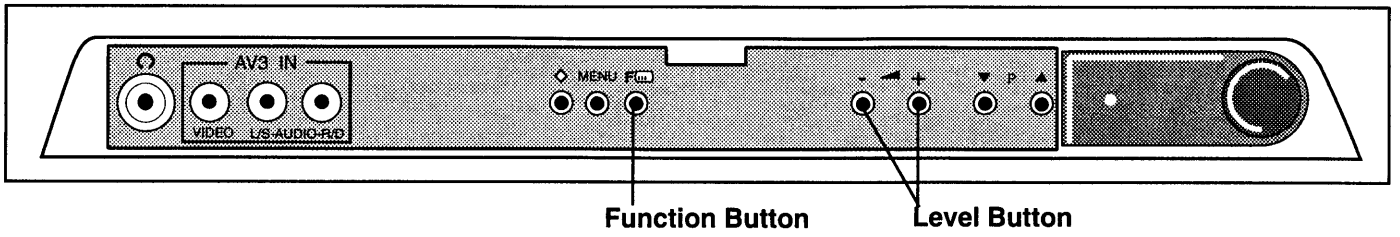
Output probe

		FM DETECTOR-1	FM DETECTOR-2	
SETTING	DC 5V AGC voltage Output probe Input probe Sweep ATT Marker Frequency	IC001-pin 21 IC001-pin 3 IC001-pin 23 (Side b) IC001-pin 17 10 39.5MHz	IC001-pin 21 -- IC001-pin 15 (Side b) IC001-pin 16 **(Condition)** Carrier frequency: 6.0MHz Modulation frequency: 1kHz(sine waveform)	
Adjustment		1. Adjust AGC voltage to be "A" = 0.5Vp-p. 2. By using T003, adjust "P" to be equal centre line.	By using T002, adjust DC level to be 1.7V.	
VIF waveform				

AUDIO BOARD



MEMORY IC REPLACEMENT (Important Notice)



When you replace a memory IC (IC731), it is necessary to initialise the IC as follows.

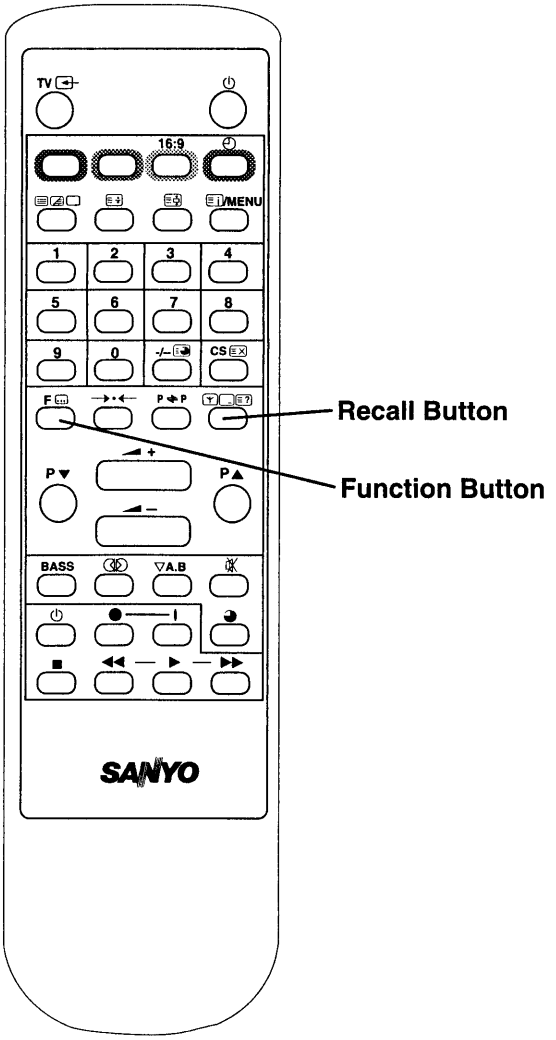
A. Initialisation of Memory IC

1. When you press and hold the Function button on the TV set and then press the Recall button on the RC transmitter, the following picture will appear on the screen.

ITEM -1	SET→ 0

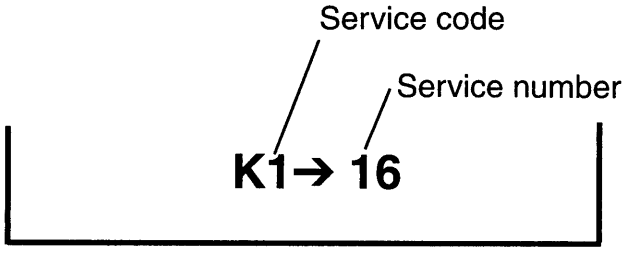
2. Confirm SET number of all items is **"0"** by pressing the Function button.
3. If it is not "0", change to "0" by the Level (+/-) button. (Changing the SET number, automatically memorised.)
4. Press the Recall button, to return the normal TV mode.

For more information, please refer to "special functions" on the instruction manual.



B. AF level

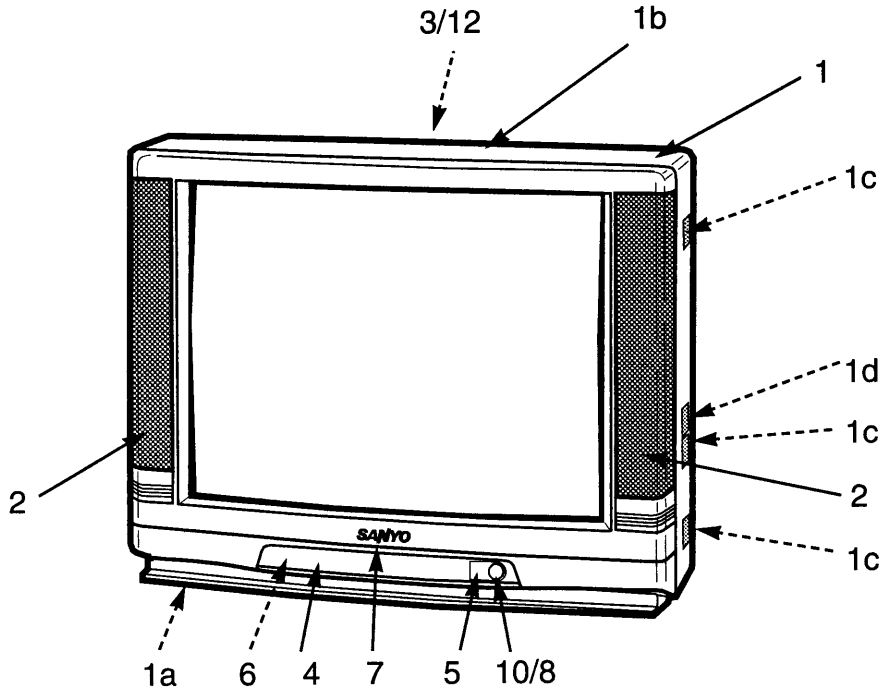
1. To enter the SERVICE mode, press and hold Function button on the TV set and then press the Function button on the RC transmitter. The following picture will appear on the screen.



2. Set the service codes and numbers as below;
   K1 → 16
   To change the service code, press the Function button.
   To change the service number, press the Level (+/-) button.
3. Press the Recall button to return to the TV mode.
4. Confirm the sound quality with stereo signal receiving.

CABINET PARTS LIST

Note: Parts order must contain Service ref No., Part No. and a Description.



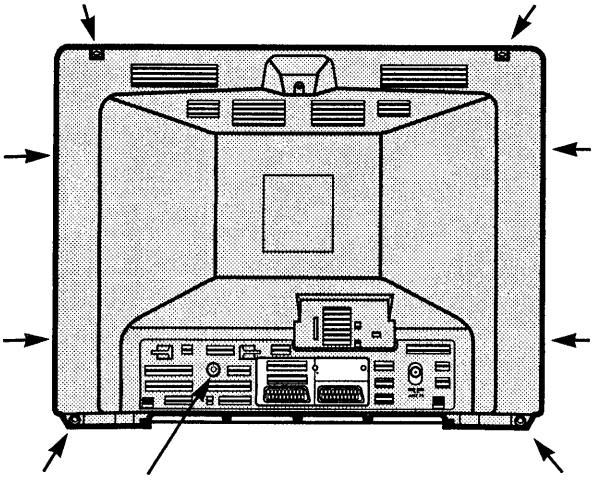
MODEL C28EH25NB
SERVICE REF. NO. C28EH25NB-00

Key No.	Part No.	Description	Notes
1	610 251 6463	ASSY,CABINET FR-E7MC	
1a	412 047 7605	SPECIAL NUT	On Cabinet bottom for TV/VCR stand fixing Qty 4
1b	610 251 1161	CABINET FRONT-E7MC	
1c	610 247 0130	MOUNTING BASE-A-E6MC	Qty 2 for service parking
1d	610 247 0147	MOUNTING BASE-B-E6MC	Qty 2 for service parking
2	610 251 2755	ASSY,GRILLE SP-E7LC	Qty 2
3	610 251 1178	CABINET BACK-E7MC	
4	610 251 4704	DOOR-E7MC	
5	610 251 4711	DEC BOARD-E7MC	
6	610 251 4728	DEC CONTROL SHEET-E7MC	Behind Door
7	645 003 9256	BADGE,SANYO*46.2X13.5L45	
8	610 210 7302	COIL SPRING-D8HA	For Power button
9	610 104 2505	PUSH LATCH-A7TLS	Behind Door
10	610 249 5355	BUTTON POWER-E7KC	
11	645 004 9767	JXTA RC TRANSMITTER ASSY	
11a	610 251 6876	RC-CASE TOP-JXTA	
11b	610 251 6883	RC-CASE BOTTOM-JXTA	
11c	610 251 6890	RC-BATTERY LID-JXTA	
11d	610 251 6906	RC-TRANSPARENT BOARD-JXTA	
12	610 251 6593	LABEL RATING-E7MC	On Back cover

Service position of the chassis

For parking the chassis during servicing.

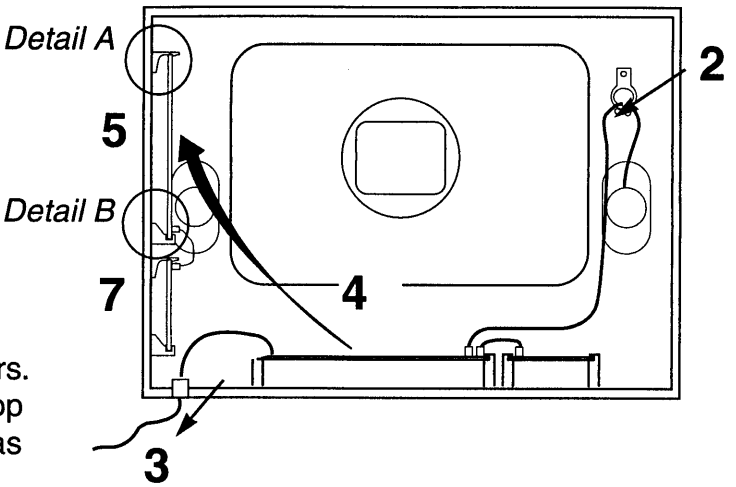
1) Remove the 9 back cover screws, and take off the back cover.



2) Unhook the speaker lead.

3) Pull out the AC cord clamp.

4) Pull out both chassis.

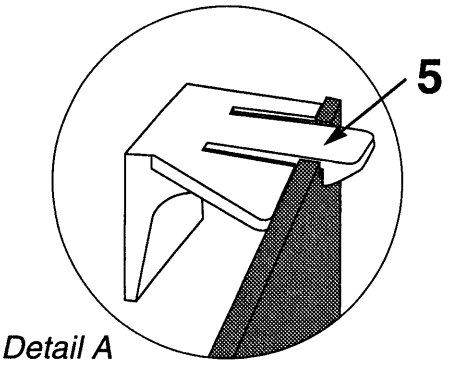


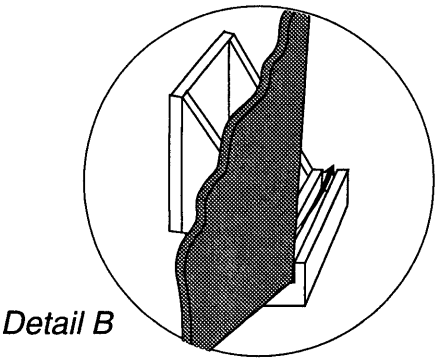
5) Insert the Main board in the upper holders. First insert the top of the board into the top holder locating the cut out withe the clip as shown in Detail A.

6) Slide the bottom of the chassis into the groove in the bottom hoder as shown in Detail B.

7) Insert the sub board in the same manner as above.

8) When finished replace chassis making sure to redress any wires. Replace AC cord clamp and refit back cover.





CHASSIS ELECTRICAL PARTS LIST

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note Parts order must contain Service Ref. No., Part No., and descriptions.

Read description in the Capacitor and Resistor as follows:

CAPACITOR
CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:
  Less than 10PF
  A: Not specified B: ±0.1PF C: ±0.25PF
  D: ±0.5PF F: ±1PF G: ±2PF
  R: ±0.25-0PF S: ±0-0.25PF E: +0-1PF
  More than 10PF
  A: Not specified B: ±0.1% C: ±0.25%
  D: ±0.5% F: ±1% G: ±2%
  H: ±3% J: ±5% K: ±10%
  L: ±15% M: ±20% N: ±30%
  P: +100-0% Q: +30-10% T: +50-10%
  U: +75-10% V: +20-10% W: +100-10%
  X: +40-20% Y: +150-10% Z: +80-20%
- 100P — Rated value: P=pico farad, U=Micro farad
- CERAMIC — Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST.... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO.... Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Solid
AL-SOLID..... Aluminium Solid
ELECT..... Electrolytic
NP-ELECT..... Non-polarized Electrolytic
OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT..... Doble Layered Electrolytic

RESISTOR
CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient
- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15%
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES.... Fusible

OUT OF CIRCUIT BOARD

Ref. No.	Part No.	Description
PICTURE TUBE		
⚠Q901	414 007 1203	CRT A66ECY13X38
COIL		
⚠L901	645 003 0048	COIL,DEGAUSSING
	645 003 0055	COIL,DEGAUSSING
MISCELLANEOUS		
KDY	610 013 9626	MINI CONNECTOR 6P-SOCKET
SP901	645 002 4313	SPEAKER,8
SP902	645 002 4313	SPEAKER,8
⚠W901	645 000 2458	CORD,POWER
W902	610 252 5601	ASSY,WIRE GND CONNECTOR E

610 251 0980ASSY,PWB,MAIN E7MC 1AA0B10E02200

Ref. No.	Part No.	Description
TRANSISTOR		
Q101	405 013 3305	TR 2SC2216(SAN)
Q122	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q124	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q127	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q128	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q202	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q203	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q205	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q301	406 011 2802	TR 2SK2045-PM-YA14

Ref. No.	Part No.	Description
	405 123 5503	TR 2SK1404-04
Q302	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q353	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q381	405 014 8408	TR 2SC2568(1)-K
	405 014 8507	TR 2SC2568(1)-L
	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
Q401	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q431	405 018 0507	TR 2SC3332-R
	405 018 0606	TR 2SC3332-S
Q432	405 095 0209	TR 2SD1556-3E
Q434	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q461	405 064 7307	TR 2SB1274-Q-RA
	405 064 7406	TR 2SB1274-R-RA
	405 064 7505	TR 2SB1274-S-RA
Q462	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q701	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q702	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q731	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q741	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q771	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q781	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q783	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q784	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q800	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q820	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q851	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q852	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q853	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q854	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q855	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q856	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q857	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q861	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
Q862	406 007 2106	TR JC546A
	406 007 2007	TR JC546B
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP

INTEGRATED CIRCUIT

IC101	409 309 6209	IC TDA8361/N3
IC270	409 291 0605	IC TDA4661/V2
	409 322 0505	IC TDA4662/V1
IC301	409 261 6101	IC TDA4605
IC351	409 143 3402	IC AN78M12-LB
	409 026 9507	IC L78M12-RA
IC352	409 285 5203	IC L78M08-RA
IC353	409 026 8609	IC L78M05-RA
IC451	409 192 5709	IC LA7833
IC701	410 193 3106	IC M37210M4-522SP
IC731	409 285 5401	IC 24C04A/P

Ref. No.	Part No.	Description
	409 343 6302	IC 24LC04B/P
IC851	409 161 3408	IC LA7954
IC861	409 009 2501	IC HD14052BP
	409 120 7607	IC MN4052B
	409 051 2801	IC TC4052BP
	409 059 2209	IC UPD4052BC
CAPACITOR		
C101	403 248 1905	ELECT 10U M 16V
C102	403 248 1608	ELECT 47U M 16V
C104	403 248 2001	ELECT 4.7U M 25V
C113	403 069 8305	CERAMIC 0.01U Z 50V
C114	403 069 8305	CERAMIC 0.01U Z 50V
C115	403 069 8305	CERAMIC 0.01U Z 50V
C116	403 069 8305	CERAMIC 0.01U Z 50V
C120	403 248 1400	ELECT 1U M 50V
C121	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C122	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C127	403 069 0507	CERAMIC 1000P K 50V
C128	403 248 2803	ELECT 2.2U M 50V
C129	403 028 2009	CERAMIC 56P J 50V
C130	403 069 8305	CERAMIC 0.01U Z 50V
C131	403 248 1608	ELECT 47U M 16V
C132	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C133	403 024 9705	CERAMIC 4P C 50V
C135	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C136	403 194 4609	ELECT 470U M 16V
C137	403 069 8305	CERAMIC 0.01U Z 50V
C145	403 022 6300	CERAMIC 33P J 50V
C202	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C203	403 061 8303	POLYESTER 4700P K 50V
	403 179 1104	POLYESTER 4700P K 50V
C204	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C205	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C206	403 270 3809	MT-POLYEST 0.047U K 63V
	403 256 1102	MT-COMPO 0.047U J 50V
C207	403 248 2803	ELECT 2.2U M 50V
C208	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C209	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C210	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C211	403 248 2803	ELECT 2.2U M 50V
C212	403 248 2803	ELECT 2.2U M 50V
C213	403 057 0601	POLYESTER 0.01U K 50V
	403 179 3801	POLYESTER 0.01U K 50V
C214	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C215	403 270 3908	MT-POLYEST 0.47U K 63V
	403 264 2207	MT-COMPO 0.47U J 50V
C216	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C221	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C225	403 013 1901	CERAMIC 150P J 50V
C226	403 013 1901	CERAMIC 150P J 50V
C231	403 194 2100	NP-ELECT 4.7U M 100V
C232	403 138 1602	ELECT 1U M 100V
C270	403 059 6205	POLYESTER 0.022U K 50V
	403 179 2408	POLYESTER 0.022U K 50V
C271	403 069 0507	CERAMIC 1000P K 50V
C272	403 069 0507	CERAMIC 1000P K 50V
C275	403 248 1905	ELECT 10U M 16V
⚠C301	404 047 3602	MT-POLYEST 0.1U M 125V

Ref. No.	Part No.	Description
	404 044 0901	MT-COMPO 0.1U M 250V
⚠C302	404 047 3602	MT-POLYEST 0.1U M 125V
	404 044 0901	MT-COMPO 0.1U M 250V
C303	403 076 7100	CERAMIC 1000P M 1K
C304	403 076 7100	CERAMIC 1000P M 1K
C305	403 076 7100	CERAMIC 1000P M 1K
C306	403 076 7100	CERAMIC 1000P M 1K
C307	404 058 1901	ELECT 330U M 400V
	404 061 5507	ELECT 330U M 385V
C308	403 061 7504	POLYESTER 4700P J 50V
	403 179 1203	POLYESTER 4700P J 50V
C309	403 270 3205	MT-POLYEST 0.15U K 63V
	403 243 6905	MT-COMPO 0.15U J 50V
C310	403 167 8603	CERAMIC 220P K 2K
C311	403 266 6302	MT-POLYEST 0.033U J 1K
C312	403 061 8303	POLYESTER 4700P K 50V
	403 179 1104	POLYESTER 4700P K 50V
C313	403 183 7000	ELECT 47U M 50V
C315	403 161 8104	ELECT 1U M 50V
C316	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C317	403 167 8603	CERAMIC 220P K 2K
C318A	403 071 7402	CERAMIC 2200P K 50V
⚠C331	404 060 6505	CERAMIC 2200P M 400V
	404 060 6604	CERAMIC 2200P M 400V
C350	403 270 3403	MT-POLYEST 0.22U K 63V
	403 263 5704	MT-COMPO 0.22U J 50V
C351	403 165 9305	CERAMIC 680P K 1K
	403 185 9101	CERAMIC 680P K 1K
C361	404 055 9801	ELECT 220U M 200V
C362	403 196 0203	ELECT 2200U M 35V
C363	403 119 8002	ELECT 470U M 25V
	403 121 8700	ELECT 470U M 25V
	403 203 8208	ELECT 470U M 25V
C364	403 148 0404	ELECT 1000U M 25V
	403 134 5307	ELECT 1000U M 25V
	403 190 2708	ELECT 1000U M 25V
C365	403 196 0203	ELECT 2200U M 35V
C366	404 064 0707	ELECT 100U M 200V
C371	403 148 0305	ELECT 470U M 16V
	403 160 7207	ELECT 470U M 16V
	403 203 7409	ELECT 470U M 16V
C374	403 184 7207	ELECT 47U M 16V
C375	403 244 1206	ELECT 100U M 10V
C381	403 210 5504	ELECT 470U M 35V
C382	403 244 1206	ELECT 100U M 10V
C385	403 233 1507	ELECT 4.7U M 50V
C400	403 014 0200	CERAMIC 18P J 50V
C401	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C402	403 270 3809	MT-POLYEST 0.047U K 63V
	403 256 1102	MT-COMPO 0.047U J 50V
C403	403 061 8303	POLYESTER 4700P K 50V
	403 179 1104	POLYESTER 4700P K 50V
C404	403 086 2300	NP-ELECT 1U M 50V
C405	403 060 0704	POLYESTER 2700P K 50V
	403 179 2200	POLYESTER 2700P K 50V
C406	403 059 6205	POLYESTER 0.022U K 50V
	403 179 2408	POLYESTER 0.022U K 50V
C407	403 233 0302	ELECT 100U M 16V
C420	404 060 7908	MT-POLYPRO 6000P J 1.5K
C423	404 046 8905	MT-POLYPRO 5400P J 1.5K
C424	403 083 4307	POLYPRO 0.022U J 400V
C425	403 083 3904	POLYPRO 0.018U J 400V
C426	403 066 6106	MT-POLYEST 0.47U J 250V
C432	403 075 7101	CERAMIC 1000P K 500V
C433	403 076 3102	CERAMIC 3900P K 500V
C434	403 229 1207	ELECT 47U M 35V
C441	403 082 7804	POLYPRO 0.18U J 200V
C442	403 082 6906	POLYPRO 0.12U J 200V
C444	403 165 7004	CERAMIC 470P K 3K
	403 264 4300	CERAMIC 470P K 3K

Ref. No.	Part No.	Description		
	403 232 3205	CERAMIC	470P K	3K
	403 185 9705	CERAMIC	470P K	3K
C445	403 076 1405	CERAMIC	2700P K	500V
C451	403 148 2002	ELECT	470U M	35V
	403 161 3109	ELECT	470U M	35V
	403 204 2809	ELECT	470U M	35V
C452	403 217 1103	ELECT	220U M	35V
C453	403 023 9706	CERAMIC	39P J	50V
C454	403 069 8305	CERAMIC	0.01U Z	50V
C455	403 075 7101	CERAMIC	1000P K	500V
C456	403 233 0807	ELECT	10U M	50V
C458	403 163 8607	ELECT	10U M	50V
C459	403 065 9801	MT-POLYEST	0.22U K	100V
	403 188 0907	MT-POLYEST	0.22U K	100V
C461	403 233 0500	ELECT	3300U M	25V
C462	403 248 1400	ELECT	1U M	50V
C463	403 188 1607	MT-POLYEST	0.1U J	100V
	403 102 8408	MT-POLYEST	0.1U K	100V
C464	403 270 3700	MT-POLYEST	0.39U K	63V
	403 264 2108	MT-COMPO	0.39U J	50V
C465	403 066 0104	MT-POLYEST	2.2U K	100V
	403 158 9107	MT-POLYEST	2.2U K	100V
C466	403 270 2901	MT-POLYEST	0.1U K	63V
	403 243 6806	MT-COMPO	0.1U J	50V
C467	403 241 3807	ELECT	220U M	10V
C468	403 258 3500	ELECT	22U M	25V
C469	403 233 0807	ELECT	10U M	50V
C470	403 069 8305	CERAMIC	0.01U Z	50V
C485	403 076 1405	CERAMIC	2700P K	500V
C486	403 159 7409	MT-POLYEST	0.1U K	250V
C701	403 138 5600	POLYESTER	5600P J	50V
	403 179 0800	POLYESTER	5600P J	50V
C702	403 068 9006	CERAMIC	100P K	50V
C703	403 248 2001	ELECT	4.7U M	25V
C704	403 068 9006	CERAMIC	100P K	50V
C705	403 248 1400	ELECT	1U M	50V
C706	403 068 9006	CERAMIC	100P K	50V
C707	403 248 1400	ELECT	1U M	50V
C708	403 068 9006	CERAMIC	100P K	50V
C709	403 248 2001	ELECT	4.7U M	25V
C721	403 270 2901	MT-POLYEST	0.1U K	63V
	403 243 6806	MT-COMPO	0.1U J	50V
C722	403 248 1608	ELECT	47U M	16V
C723	403 026 0700	CERAMIC	47P J	50V
C724	403 026 0700	CERAMIC	47P J	50V
C730	403 069 8305	CERAMIC	0.01U Z	50V
C731	403 248 1905	ELECT	10U M	16V
C732	403 270 2901	MT-POLYEST	0.1U K	63V
	403 243 6806	MT-COMPO	0.1U J	50V
C741	403 026 0809	CERAMIC	47P J	50V
C742	403 069 0507	CERAMIC	1000P K	50V
C781	403 068 9006	CERAMIC	100P K	50V
C783	403 068 9006	CERAMIC	100P K	50V
C784	403 068 9006	CERAMIC	100P K	50V
C801	403 068 9006	CERAMIC	100P K	50V
C802	403 248 1905	ELECT	10U M	16V
C804	403 068 9006	CERAMIC	100P K	50V
C805	403 248 1905	ELECT	10U M	16V
C807	403 068 9006	CERAMIC	100P K	50V
C808	403 248 1905	ELECT	10U M	16V
C810	403 068 9006	CERAMIC	100P K	50V
C811	403 248 1905	ELECT	10U M	16V
C812	403 248 1905	ELECT	10U M	16V
C821	403 068 9006	CERAMIC	100P K	50V
C822	403 248 1905	ELECT	10U M	16V
C824	403 068 9006	CERAMIC	100P K	50V
C825	403 248 1905	ELECT	10U M	16V
C827	403 068 9006	CERAMIC	100P K	50V
C828	403 248 1905	ELECT	10U M	16V
C830	403 068 9006	CERAMIC	100P K	50V
C831	403 248 1905	ELECT	10U M	16V
C832	403 248 1905	ELECT	10U M	16V
C833	403 068 9006	CERAMIC	100P K	50V
C835	403 248 1905	ELECT	10U M	16V
C836	403 068 9006	CERAMIC	100P K	50V
C838	403 248 1905	ELECT	10U M	16V
C839	403 248 1905	ELECT	10U M	16V
C851	403 248 1905	ELECT	10U M	16V
C852	403 270 3908	MT-POLYEST	0.47U K	63V
	403 264 2207	MT-COMPO	0.47U J	50V
C861	403 248 1905	ELECT	10U M	16V
RESISTOR				
R101	401 026 9303	CARBON	47 JA	1/6W
R103	401 024 6700	CARBON	100 JA	1/6W
R104	401 027 2600	CARBON	5.6K JA	1/6W
R105	401 024 7004	CARBON	1K JA	1/6W
R106	401 025 7409	CARBON	220 JA	1/6W
R107	401 026 0409	CARBON	27 JA	1/6W
R111	401 026 9600	CARBON	470 JA	1/6W
R112	401 026 9600	CARBON	470 JA	1/6W
R121	401 027 0309	CARBON	47K JA	1/6W
R122	401 025 8703	CARBON	220K JA	1/6W
R123	401 025 8703	CARBON	220K JA	1/6W
R124	401 027 5502	CARBON	6.8K JA	1/6W
R126	401 027 2600	CARBON	5.6K JA	1/6W
R127	401 024 6700	CARBON	100 JA	1/6W
R131	401 027 5502	CARBON	6.8K JA	1/6W
R132	401 027 0309	CARBON	47K JA	1/6W
R133	401 025 3807	CARBON	180 JA	1/6W
R134	401 024 7004	CARBON	1K JA	1/6W
R136	401 027 0309	CARBON	47K JA	1/6W
R138	401 026 6609	CARBON	390 JA	1/6W
R141	401 025 8208	CARBON	22K JA	1/6W
R151	401 022 1905	CARBON	680 JA	1/4W
R153	401 024 7004	CARBON	1K JA	1/6W
R154	401 024 7004	CARBON	1K JA	1/6W
R155	401 024 7004	CARBON	1K JA	1/6W
R156	401 024 7004	CARBON	1K JA	1/6W
R157	401 027 8602	CARBON	8.2K JA	1/6W
R185	401 007 7601	CARBON	150 JA	1/2W
R186	401 007 7601	CARBON	150 JA	1/2W
R202	401 024 7707	CARBON	100K JA	1/6W
R203	401 024 6700	CARBON	100 JA	1/6W
R204	401 024 6700	CARBON	100 JA	1/6W
R205	401 024 6700	CARBON	100 JA	1/6W
R206	401 024 6700	CARBON	100 JA	1/6W
R207	401 024 6700	CARBON	100 JA	1/6W
R208	401 024 6700	CARBON	100 JA	1/6W
R209	401 027 5502	CARBON	6.8K JA	1/6W
R210	401 025 1902	CARBON	15K JA	1/6W
R212	401 025 4200	CARBON	1.8K JA	1/6W
R213	401 024 7400	CARBON	10K JA	1/6W
R215	401 025 4200	CARBON	1.8K JA	1/6W
R216	401 024 7400	CARBON	10K JA	1/6W
R217	401 025 1308	CARBON	150 JA	1/6W
R218	401 025 1308	CARBON	150 JA	1/6W
R219	401 026 6609	CARBON	390 JA	1/6W
R220	401 027 5007	CARBON	68 JA	1/6W
R221	401 024 6700	CARBON	100 JA	1/6W
R231	401 014 0305	CARBON	130K JA	1/4W
R232	401 024 7004	CARBON	1K JA	1/6W
R233	401 000 7509	SOLID	1.5K KA	1/2W
R234	401 024 7400	CARBON	10K JA	1/6W
R235	401 026 7408	CARBON	39K JA	1/6W
R236	401 026 7804	CARBON	3.9M JA	1/6W
R241	401 025 8208	CARBON	22K JA	1/6W
R275	401 025 7409	CARBON	220 JA	1/6W
R301	401 010 4802	CARBON	470K JA	1/2W
R302	401 016 5803	CARBON	220K JA	1/4W
R303	401 016 5803	CARBON	220K JA	1/4W
R304	401 018 5801	CARBON	330K JA	1/4W
R305	401 017 3808	CARBON	270K JA	1/4W
R306	401 020 3901	CARBON	470K JA	1/4W

Ref. No.	Part No.	Description			
R307	401 017 3808	CARBON	270K	JA	1/4W
R308	401 026 9907	CARBON	4.7K	JA	1/6W
R309	401 016 2604	CARBON	220	JA	1/4W
R310	401 011 6102	CARBON	8.2K	JA	1/2W
R311	401 011 6102	CARBON	8.2K	JA	1/2W
R312	401 011 6102	CARBON	8.2K	JA	1/2W
R313	401 011 6102	CARBON	8.2K	JA	1/2W
R314	401 022 9406	CARBON	8.2	JA	1/4W
R315	401 020 2003	CARBON	4.7K	JA	1/4W
R316	401 008 8607	CARBON	220K	JA	1/2W
R317	401 159 1304	OXIDE-MT	100K	JA	2W
R318	401 008 8607	CARBON	220K	JA	1/2W
R319	401 159 1304	OXIDE-MT	100K	JA	2W
R321	401 027 0309	CARBON	47K	JA	1/6W
R324	401 024 7400	CARBON	10K	JA	1/6W
R325	401 012 4503	CARBON	100	JA	1/4W
R326	401 025 7805	CARBON	2.2K	JA	1/6W
R327	401 027 2600	CARBON	5.6K	JA	1/6W
⚠R331	402 000 8305	SOLID	5.6M	KA	1/2W
⚠R332	402 000 8305	SOLID	5.6M	KA	1/2W
R352	401 014 6109	CARBON	150K	JA	1/4W
R353	401 027 4307	CARBON	6.2K	JA	1/6W
R354	401 015 4708	CARBON	180K	JA	1/4W
R355	401 011 2708	CARBON	68K	JA	1/2W
R356	401 025 8208	CARBON	22K	JA	1/6W
R361	401 065 9609	OXIDE-MT	18	JA	2W
R366	401 059 9608	OXIDE-MT	2.2	JA	1W
R367	401 060 0403	OXIDE-MT	2.7	JA	1W
R381	401 026 4308	CARBON	3.3K	JA	1/6W
R383	401 026 9600	CARBON	470	JA	1/6W
R385	401 007 2309	CARBON	100K	JA	1/2W
R400	401 027 0309	CARBON	47K	JA	1/6W
R401	401 024 6700	CARBON	100	JA	1/6W
R402	401 027 3201	CARBON	560K	JA	1/6W
R403	401 024 6700	CARBON	100	JA	1/6W
R404	401 025 8208	CARBON	22K	JA	1/6W
R405	401 024 6700	CARBON	100	JA	1/6W
R406	401 026 7606	CARBON	390K	JA	1/6W
R407	401 025 8208	CARBON	22K	JA	1/6W
R408	401 024 6700	CARBON	100	JA	1/6W
R409	401 026 9907	CARBON	4.7K	JA	1/6W
R410	401 025 8208	CARBON	22K	JA	1/6W
R411	401 025 7805	CARBON	2.2K	JA	1/6W
R412	401 025 0004	CARBON	120K	JA	1/6W
R413	401 024 7400	CARBON	10K	JA	1/6W
R422	402 068 0204	WIRE WOUND	10	JA	5W
R432	401 024 7004	CARBON	1K	JA	1/6W
R433	401 007 1104	CARBON	1K	JA	1/2W
R434	401 067 9201	OXIDE-MT	390	JA	2W
R436	401 012 7009	CARBON	10K	JA	1/4W
R441	402 038 0708	FUSIBLE RES	1K	J-	1W
R450	401 027 3003	CARBON	56K	JA	1/6W
R451	402 051 8705	FUSIBLE RES	4.7	J-	1/2W
R452	401 026 7002	CARBON	3.9K	JA	1/6W
R453	401 025 7805	CARBON	2.2K	JA	1/6W
R454	401 027 8107	CARBON	82	JA	1/6W
R455	401 025 1605	CARBON	1.5K	JA	1/6W
R456	401 026 9907	CARBON	4.7K	JA	1/6W
R457	401 026 1000	CARBON	2.7K	JA	1/6W
R458	401 059 2807	OXIDE-MT	150	JA	1W
R459	401 057 7507	OXIDE-MT	0.82	JA	1W
R460	401 062 1200	OXIDE-MT	470	JA	1W
R461	401 058 3706	OXIDE-MT	1K	JA	1W
R462	401 025 1605	CARBON	1.5K	JA	1/6W
R463	401 025 1605	CARBON	1.5K	JA	1/6W
R464	401 063 6402	OXIDE-MT	820	JA	1W
R467	401 025 8703	CARBON	220K	JA	1/6W
R468	401 025 4200	CARBON	1.8K	JA	1/6W
R469	401 027 5908	CARBON	68K	JA	1/6W
R471	401 025 1605	CARBON	1.5K	JA	1/6W
R472	401 027 0309	CARBON	47K	JA	1/6W
R473	401 027 5205	CARBON	680	JA	1/6W
R474	401 009 0907	CARBON	270	JA	1/2W
R475	401 009 5803	CARBON	330	JA	1/2W
R476	401 016 3809	CARBON	2.2K	JA	1/4W
R477	401 027 2600	CARBON	5.6K	JA	1/6W
R479	401 025 4200	CARBON	1.8K	JA	1/6W
R480	401 027 0309	CARBON	47K	JA	1/6W
R481	401 057 9907	OXIDE-MT	1.5	JA	1W
R485	401 025 4903	CARBON	180K	JA	1/6W
R486	401 027 2600	CARBON	5.6K	JA	1/6W
R701	401 026 1307	CARBON	27K	JA	1/6W
R702	401 024 7400	CARBON	10K	JA	1/6W
R703	401 027 0309	CARBON	47K	JA	1/6W
R704	401 026 9907	CARBON	4.7K	JA	1/6W
R705	401 026 9907	CARBON	4.7K	JA	1/6W
R706	401 026 4605	CARBON	33K	JA	1/6W
R707	401 025 7805	CARBON	2.2K	JA	1/6W
R708	401 024 7400	CARBON	10K	JA	1/6W
R709	401 025 8208	CARBON	22K	JA	1/6W
R710	401 027 0309	CARBON	47K	JA	1/6W
R711	401 024 9305	CARBON	1.2K	JA	1/6W
R712	401 026 7002	CARBON	3.9K	JA	1/6W
R713	401 026 4605	CARBON	33K	JA	1/6W
R715	401 024 7004	CARBON	1K	JA	1/6W
R716	401 024 7400	CARBON	10K	JA	1/6W
R717	401 027 8602	CARBON	8.2K	JA	1/6W
R718	401 027 5908	CARBON	68K	JA	1/6W
R719	401 025 7805	CARBON	2.2K	JA	1/6W
R720	401 026 4308	CARBON	3.3K	JA	1/6W
R721	401 026 4308	CARBON	3.3K	JA	1/6W
R723	401 024 7400	CARBON	10K	JA	1/6W
R724	401 025 8208	CARBON	22K	JA	1/6W
R725	401 025 8208	CARBON	22K	JA	1/6W
R726	401 024 7400	CARBON	10K	JA	1/6W
R727	401 027 9005	CARBON	82K	JA	1/6W
R728	401 025 8208	CARBON	22K	JA	1/6W
R731	401 025 1308	CARBON	150	JA	1/6W
R732	401 026 7002	CARBON	3.9K	JA	1/6W
R733	401 024 6700	CARBON	100	JA	1/6W
R734	401 025 1308	CARBON	150	JA	1/6W
R735	401 026 7002	CARBON	3.9K	JA	1/6W
R736	401 024 6700	CARBON	100	JA	1/6W
R737	401 026 9907	CARBON	4.7K	JA	1/6W
R738	401 027 8602	CARBON	8.2K	JA	1/6W
R739	401 025 1605	CARBON	1.5K	JA	1/6W
R740	401 024 7400	CARBON	10K	JA	1/6W
R741	401 024 9305	CARBON	1.2K	JA	1/6W
R742	401 027 2600	CARBON	5.6K	JA	1/6W
R743	401 024 7400	CARBON	10K	JA	1/6W
R744	401 024 7400	CARBON	10K	JA	1/6W
R745	401 024 7707	CARBON	100K	JA	1/6W
R746	401 024 7400	CARBON	10K	JA	1/6W
R747	401 026 9907	CARBON	4.7K	JA	1/6W
R748	401 025 8208	CARBON	22K	JA	1/6W
R749	401 026 9600	CARBON	470	JA	1/6W
R751	401 027 0309	CARBON	47K	JA	1/6W
R752	401 025 1902	CARBON	15K	JA	1/6W
R753	401 027 5502	CARBON	6.8K	JA	1/6W
R754	401 026 9907	CARBON	4.7K	JA	1/6W
R755	401 026 1000	CARBON	2.7K	JA	1/6W
R756	401 025 4200	CARBON	1.8K	JA	1/6W
R757	401 025 1605	CARBON	1.5K	JA	1/6W
R758	401 025 1308	CARBON	150	JA	1/6W
R759	401 024 7400	CARBON	10K	JA	1/6W
R761	401 025 8208	CARBON	22K	JA	1/6W
R762	401 025 8208	CARBON	22K	JA	1/6W
R766	401 025 8208	CARBON	22K	JA	1/6W
R767	401 026 4308	CARBON	3.3K	JA	1/6W
R771	401 025 1902	CARBON	15K	JA	1/6W
R772	401 027 2303	CARBON	560	JA	1/6W
R773	401 026 3905	CARBON	330	JA	1/6W
R774	401 025 7805	CARBON	2.2K	JA	1/6W
R781	401 026 3905	CARBON	330	JA	1/6W

Ref. No.	Part No.	Description
R783	401 026 3905	CARBON 330 JA 1/6W
R784	401 027 8305	CARBON 820 JA 1/6W
R791	401 025 8208	CARBON 22K JA 1/6W
R800	401 027 2303	CARBON 560 JA 1/6W
R802	401 025 7805	CARBON 2.2K JA 1/6W
R804	401 027 2303	CARBON 560 JA 1/6W
R806	401 025 7805	CARBON 2.2K JA 1/6W
R808	401 027 6608	CARBON 75 JA 1/6W
R809	401 025 8208	CARBON 22K JA 1/6W
R810	401 026 1000	CARBON 2.7K JA 1/6W
R811	401 027 6608	CARBON 75 JA 1/6W
R812	401 024 6700	CARBON 100 JA 1/6W
R813	401 027 6608	CARBON 75 JA 1/6W
R814	401 027 6608	CARBON 75 JA 1/6W
R815	401 027 6608	CARBON 75 JA 1/6W
R816	401 024 6700	CARBON 100 JA 1/6W
R820	401 027 2303	CARBON 560 JA 1/6W
R822	401 025 7805	CARBON 2.2K JA 1/6W
R824	401 027 2303	CARBON 560 JA 1/6W
R826	401 025 7805	CARBON 2.2K JA 1/6W
R828	401 025 8208	CARBON 22K JA 1/6W
R829	401 026 1000	CARBON 2.7K JA 1/6W
R830	401 027 6608	CARBON 75 JA 1/6W
R831	401 027 6608	CARBON 75 JA 1/6W
R832	401 025 7805	CARBON 2.2K JA 1/6W
R833	401 024 7707	CARBON 100K JA 1/6W
R834	401 025 7805	CARBON 2.2K JA 1/6W
R835	401 024 7707	CARBON 100K JA 1/6W
R836	401 027 6608	CARBON 75 JA 1/6W
R837	401 024 6700	CARBON 100 JA 1/6W
R838	401 024 6700	CARBON 100 JA 1/6W
R850	401 025 1308	CARBON 150 JA 1/6W
R851	401 026 9600	CARBON 470 JA 1/6W
R852	401 025 7409	CARBON 220 JA 1/6W
R853	401 025 7409	CARBON 220 JA 1/6W
R855	401 024 7400	CARBON 10K JA 1/6W
R856	401 025 4200	CARBON 1.8K JA 1/6W
R857	401 026 9600	CARBON 470 JA 1/6W
R858	401 024 7400	CARBON 10K JA 1/6W
R859	401 026 9907	CARBON 4.7K JA 1/6W
R860	401 026 6609	CARBON 390 JA 1/6W
R861	401 024 7400	CARBON 10K JA 1/6W
R862	401 026 9600	CARBON 470 JA 1/6W
R863	401 024 9305	CARBON 1.2K JA 1/6W
R864	401 026 1000	CARBON 2.7K JA 1/6W
R865	401 027 5502	CARBON 6.8K JA 1/6W
R866	401 026 9600	CARBON 470 JA 1/6W
R867	401 025 7805	CARBON 2.2K JA 1/6W
R868	401 026 9600	CARBON 470 JA 1/6W
R869	401 025 7805	CARBON 2.2K JA 1/6W
R870	401 027 9005	CARBON 82K JA 1/6W
R871	401 027 9005	CARBON 82K JA 1/6W
R872	401 027 9005	CARBON 82K JA 1/6W
R873	401 027 9005	CARBON 82K JA 1/6W
R874	401 027 9005	CARBON 82K JA 1/6W
R875	401 027 9005	CARBON 82K JA 1/6W
VARIABLE RESISTOR		
VR120	610 237 8726	VR B-10K
	610 239 7550	VR B-10K
VR351	610 237 8702	VR B-2.2K
	610 239 7574	VR B-2K
VR401	610 237 8726	VR B-10K
	610 239 7550	VR B-10K
VR451	610 230 8013	VR B-100
	610 232 7892	VR B-100
VR462	610 230 7320	VR B-4.7K
	610 232 8448	VR B-5K
TRANSFORMER		
T121	610 037 4522	S COIL
⚠T311	645 004 9750	TRANS,POWER,PULSE
⚠T381	610 033 3758	POWER TRANS
	610 240 4722	POWER TRANS
T431	610 000 1077	DRIVE TRANS
⚠T471	645 003 3094	TRANS,FLYBACK
COIL		
L103	610 031 4177	PEAKING COIL
L125	610 031 3873	PEAKING COIL 10UHK
L126	610 031 4030	PEAKING COIL
L221	610 031 4177	PEAKING COIL
L222	610 031 4177	PEAKING COIL
L280	610 031 3873	PEAKING COIL 10UHK
⚠L301	610 221 6912	LINE FILTER
L361	610 032 1083	INDUCTOR
L431	610 032 4367	FILTER COIL
L441	610 000 0858	LINEARITY COIL
	610 000 0872	LINEARITY COIL
L442	610 219 0342	COIL
L452	610 032 1243	INDUCTOR 150UHK
	610 032 1250	INDUCTOR 150UHK
L461	610 031 1367	INDUCTOR 202J
L462	645 000 2229	INDUCTOR,430UH
L701	610 031 4214	PEAKING COIL
L702	610 031 4030	PEAKING COIL
L731	610 029 6725	PEAKING COIL 1.5UH M
L824	610 031 3873	PEAKING COIL 10UHK
L825	610 031 3873	PEAKING COIL 10UHK
DIODE		
D135	407 075 9905	ZENER DIODE EQA03-11A
D201	407 075 9905	ZENER DIODE EQA03-11A
D202	407 075 9905	ZENER DIODE EQA03-11A
D203	407 075 9905	ZENER DIODE EQA03-11A
D210	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D231	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D232	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D233	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D275	407 048 1202	ZENER DIODE EQA02-05E
	407 056 8200	ZENER DIODE RD5.1EB3
	407 163 8209	ZENER DIODE UZ-5.1BCC
D303	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D304	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D305	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D306	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
D311	407 146 8103	DIODE EG01C
D312	407 007 7306	DIODE EU01Z
D313	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
⚠D331	407 105 8700	PHOTO COUPLE PC113B
	408 009 8407	PHOTO COUPLE CNY17F-3OPT6
⚠D332	407 105 8700	PHOTO COUPLE PC113B
	408 009 8407	PHOTO COUPLE CNY17F-3OPT6
D351	407 156 2207	DIODE RU4B LF-L1
D352	407 106 2806	DIODE RU3YX
D353	407 007 7603	DIODE EU2
	408 007 2506	DIODE BYW32
D354	407 106 2806	DIODE RU3YX
D355	407 166 2303	DIODE ERC91-02L
D361	407 048 2407	ZENER DIODE EQA02-06E
	407 048 2605	ZENER DIODE EQA02-06F

Ref. No.	Part No.	Description
	407 057 2801	ZENER DIODE RD6.2EB3
	407 057 4003	ZENER DIODE RD6.8EB1
	407 151 8600	ZENER DIODE UZ-6.2BCC
	407 164 9908	ZENER DIODE UZ-6.8BCA
D381	407 005 7308	DIODE EM01Z
D382	407 048 2001	ZENER DIODE EQA02-06B
	407 057 0104	ZENER DIODE RD5.6EB3
	407 151 8501	ZENER DIODE UZ-5.6BCC
D383	407 075 9905	ZENER DIODE EQA03-11A
D384	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D385	407 147 9208	ZENER DIODE BZX79C33
	407 049 0907	ZENER DIODE EQA02-33A
	407 056 2307	ZENER DIODE RD36EB1
	407 163 9503	ZENER DIODE UZ-36BCA
D391	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D393	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D394	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D395	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D401	407 075 9905	ZENER DIODE EQA03-11A
D431	407 048 4906	ZENER DIODE EQA02-09A
	407 048 5101	ZENER DIODE EQA02-09B
	407 057 9602	ZENER DIODE RD9.1EB1
	407 057 9701	ZENER DIODE RD9.1EB2
	407 163 9909	ZENER DIODE UZ-9.1BCA
	407 162 2703	ZENER DIODE UZ-9.1BCB
D438	407 095 8001	DIODE ERD07-15L
D439	407 006 4108	DIODE ERB44-04
D451	407 005 7308	DIODE EM01Z
	408 009 9008	DIODE BYD33D
D452	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D464	407 048 1509	ZENER DIODE EQA02-05F
	407 056 9801	ZENER DIODE RD5.6EB1
	407 163 9602	ZENER DIODE UZ-5.6BCA
D465	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D466	407 048 9000	ZENER DIODE EQA02-18A
	407 055 1707	ZENER DIODE RD20EB1
	407 164 7805	ZENER DIODE UZ-20BCA
D467	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D468	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D469	407 007 7405	DIODE EU1
D471	407 118 2207	ZENER DIODE 1Z75
D485	407 007 7405	DIODE EU1
D486	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D731	407 055 7907	ZENER DIODE RD3.6EL
D741	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D771	407 116 6504	LED SLP-181B-51
D775	408 007 8607	DIODE 1N4148
	407 013 1206	DIODE 1S1555
D781	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D800	407 075 9905	ZENER DIODE EQA03-11A
D801	407 075 9905	ZENER DIODE EQA03-11A
D802	407 075 9905	ZENER DIODE EQA03-11A
D803	407 075 9905	ZENER DIODE EQA03-11A
D804	407 075 9905	ZENER DIODE EQA03-11A
D805	407 075 9905	ZENER DIODE EQA03-11A
D806	407 075 9905	ZENER DIODE EQA03-11A
D807	407 075 9905	ZENER DIODE EQA03-11A
D808	407 075 9905	ZENER DIODE EQA03-11A
D809	407 075 9905	ZENER DIODE EQA03-11A
D810	407 075 9905	ZENER DIODE EQA03-11A
D820	407 075 9905	ZENER DIODE EQA03-11A
D821	407 075 9905	ZENER DIODE EQA03-11A
D822	407 075 9905	ZENER DIODE EQA03-11A
D823	407 075 9905	ZENER DIODE EQA03-11A
D824	407 075 9905	ZENER DIODE EQA03-11A
D825	407 075 9905	ZENER DIODE EQA03-11A
D826	407 075 9905	ZENER DIODE EQA03-11A
D827	407 075 9905	ZENER DIODE EQA03-11A
D828	407 075 9905	ZENER DIODE EQA03-11A
D851	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D852	407 048 8300	ZENER DIODE EQA02-15A
D853	407 048 8300	ZENER DIODE EQA02-15A
MISCELLANEOUS		
⚠F301	423 022 2102	FUSE 250V 4A
A101	645 004 9385	TUNER,U
A701	610 224 5806	RC PREAMP 409-1L
03	610 247 2066	HEAT SINK V E6LC
03	610 222 0667	MTG BRKT N1E-A
03	610 079 6355	TR MTG BRKT-A3MA
03	610 219 3770	TR MTG BRKT-D8RJ
03	610 232 9605	AUDIO HEATSINK E5PK
KG	610 225 1685	SOCKET 7P
KH	610 221 7391	SOCKET 6P
KJ	645 005 0060	PLUG,PWB-PWB 15P
K171	610 212 6334	PHONE JACK
K801	610 234 3779	SOCKET 21P
K801Z	610 081 9887	SOCKET MTG BRKT-D8PC
K802	610 234 3779	SOCKET 21P
K802Z	610 081 9887	SOCKET MTG BRKT-D8PC
K803	610 234 7142	COMBINATION JACK BOARD
NTC301	408 017 7508	THERMISTOR SECI TSD 1520
	408 017 7607	TH Q-63023-K-1479-N
	408 017 7706	TH B-57129-B-3479-M
⚠PS301	408 013 3801	TH PTH451C262BF140M270
SW220	610 011 2728	LEVER SWITCH
⚠SW301	645 003 6811	SWITCH,PUSH POWER 2P-2T
SW451	610 011 2728	LEVER SWITCH
SW701	610 011 4432	PUSH SWITCH
SW702	610 011 4432	PUSH SWITCH
SW703	610 011 4432	PUSH SWITCH
SW704	610 011 4432	PUSH SWITCH
SW705	610 216 7962	PUSH SWITCH
X101	421 002 4702	SAW F TSF5322
	421 003 6705	SAW F TSF5322U
X124	610 015 2885	CERAMIC FILTER
X400	610 249 5577	CRYSTAL OSCILLATOR
X701	645 000 6692	OSC,CERAMIC 8.00MHZ
	645 002 1039	OSC,CERAMIC 8.00MHZ

610 251 0997ASSY,PWB,CRT E7MC 1AA0B10E02300

TRANSISTOR

Q601	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q611	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q621	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA

AUDIO/NICAM PCB = 610-251-1154
SIF PCB = 610-251-1123
TEXT PCB = 610-251-1147

Ref. No.	Part No.	Description
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q640	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
Q651	406 007 1901	TR JC556A
	406 007 1802	TR JC556B
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 028 7909	TR 2SA608-G-CTV-NP
CAPACITOR		
C601	403 072 7708	CERAMIC 330P K 50V
C611	403 072 7708	CERAMIC 330P K 50V
C621	403 072 7708	CERAMIC 330P K 50V
C631	403 077 2708	CERAMIC 1000P P 2K
C635	403 055 8401	ELECT 22U M 250V
	403 260 0405	ELECT 22U M 250V
C651	403 201 5001	ELECT 330U M 16V
RESISTOR		
R601	401 018 2800	CARBON 330 JA 1/4W
R602	401 018 3807	CARBON 3.3K JA 1/4W
R603	401 012 5708	CARBON 1K JA 1/4W
R604	401 065 4604	OXIDE-MT 12K JA 2W
R605	401 002 0102	SOLID 3.3K KA 1/2W
R611	401 018 2800	CARBON 330 JA 1/4W
R612	401 018 3807	CARBON 3.3K JA 1/4W
R613	401 016 3809	CARBON 2.2K JA 1/4W
R614	401 065 4604	OXIDE-MT 12K JA 2W
R615	401 002 0102	SOLID 3.3K KA 1/2W
R621	401 018 2800	CARBON 330 JA 1/4W
R622	401 018 3807	CARBON 3.3K JA 1/4W
R623	401 015 2704	CARBON 1.8K JA 1/4W
R624	401 065 4604	OXIDE-MT 12K JA 2W
R625	401 002 0102	SOLID 3.3K KA 1/2W
R627	401 020 0801	CARBON 470 JA 1/4W
R631	401 001 7607	SOLID 270K KA 1/2W
R641	401 020 2003	CARBON 4.7K JA 1/4W
R642	401 018 3807	CARBON 3.3K JA 1/4W
R644	401 019 1000	CARBON 390 JA 1/4W
R652	401 012 7009	CARBON 10K JA 1/4W
R653	401 012 7009	CARBON 10K JA 1/4W
R654	401 019 1000	CARBON 390 JA 1/4W
VARIABLE RESISTOR		
VR601	645 003 4121	VR,SEMI,4.7K S
VR602	645 002 1916	VR,SEMI,1K S
VR611	645 003 4121	VR,SEMI,4.7K S
VR612	645 002 1916	VR,SEMI,1K S
VR621	645 003 4121	VR,SEMI,4.7K S
COIL		
L601	610 029 6268	PEAKING COIL 330UH K
L611	610 029 6268	PEAKING COIL 330UH K
L621	610 029 6268	PEAKING COIL 330UH K
DIODE		
D601	407 013 1206	DIODE 1S1555
D611	407 013 1206	DIODE 1S1555
D621	407 013 1206	DIODE 1S1555
D651	407 013 1206	DIODE 1S1555
MISCELLANEOUS		
⚠K601	610 233 7990	CRT SOCKET

Ref. No.	Part No.	Description

610 251 1154ASSY,PWB,AUDIO&TEXT E7MC 1AA0B10E02400

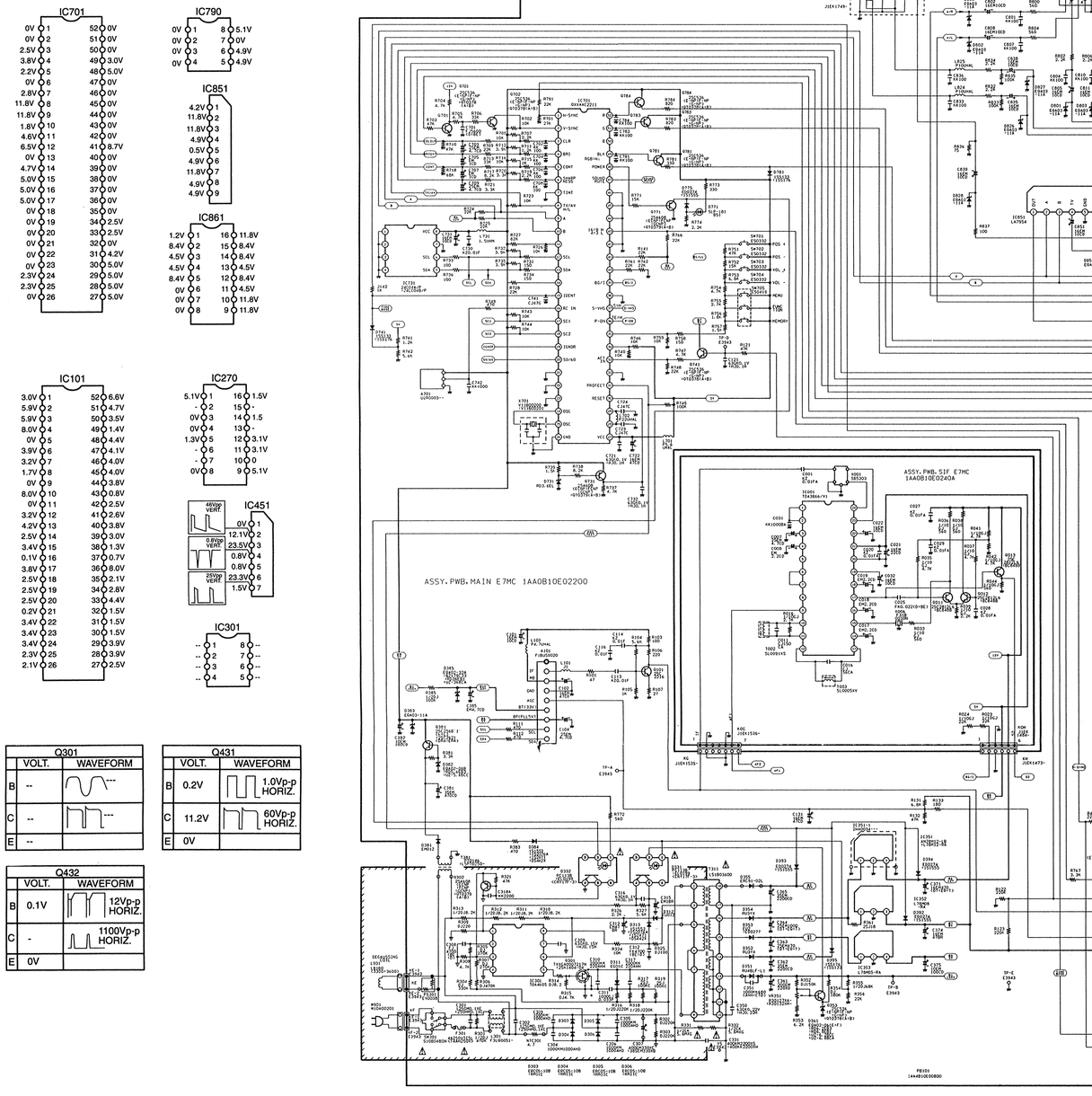
TRANSISTOR		
Q011	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q012	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q013	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1001	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1002	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1003	405 109 4506	TR BC858-B
	405 002 6706	TR 2SA1179-M6-TA
Q1051	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1052	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1053	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q1054	405 109 4506	TR BC858-B
	405 002 6706	TR 2SA1179-M6-TA
Q1055	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q503	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q504	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q541	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q543	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
Q581	405 109 4407	TR BC848-B
	405 015 8704	TR 2SC2812-L6-TA
INTEGRATED CIRCUIT		
IC001	409 330 9903	IC TDA3866/V1
IC1001	409 268 2601	IC CF72306
IC1002	409 330 9804	IC CF70200NW
IC1003	409 124 5302	IC L78M05T
IC501	409 316 5400	IC XC44131PB
IC541	409 304 6006	IC TDA8205
IC542	409 304 5900	IC TDA8204
IC581	409 301 4906	IC TDA7263M
CAPACITOR		
C001	403 069 9500	CERAMIC 0.01U Z 50V
C007	403 248 2001	ELECT 4.7U M 25V
C008	403 248 2803	ELECT 2.2U M 50V
C011	403 013 3004	CERAMIC 150P J 50V
C015	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C016	403 028 4102	CERAMIC 56P J 50V
C017	403 248 2803	ELECT 2.2U M 50V
C018	403 248 2803	ELECT 2.2U M 50V
C019	403 248 2803	ELECT 2.2U M 50V
C020	403 069 9500	CERAMIC 0.01U Z 50V
C021	403 258 3203	ELECT 22U M 16V
C022	403 248 1905	ELECT 10U M 16V
C025	403 059 6205	POLYESTER 0.022U K 50V
	403 179 2408	POLYESTER 0.022U K 50V
C026	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C027	403 069 9500	CERAMIC 0.01U Z 50V
C028	403 069 9500	CERAMIC 0.01U Z 50V
C029	403 069 9500	CERAMIC 0.01U Z 50V
C031	403 069 1702	CERAMIC 1000P K 50V
C032	403 248 1905	ELECT 10U M 16V
C1001	403 069 9500	CERAMIC 0.01U Z 50V
C1002	403 071 6504	CERAMIC 220P K 50V
C1003	403 014 3409	CERAMIC 18P J 50V
C1004	403 014 3409	CERAMIC 18P J 50V

Ref. No.	Part No.	Description
C1005	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1006	403 069 9500	CERAMIC 0.01U Z 50V
C1007	403 071 6504	CERAMIC 220P K 50V
C1008	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1010	403 069 9500	CERAMIC 0.01U Z 50V
C1012	403 270 2901	MT-POLYEST 0.1U K 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C1013	403 069 9500	CERAMIC 0.01U Z 50V
C1014	403 069 9500	CERAMIC 0.01U Z 50V
C1015	403 248 1905	ELECT 10U M 16V
C1016	403 026 2803	CERAMIC 47P J 50V
C1021	403 013 3004	CERAMIC 150P J 50V
C1051	403 248 2001	ELECT 4.7U M 25V
C1052	403 014 9203	CERAMIC 180P J 50V
C1053	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C1054	403 248 1608	ELECT 47U M 16V
C501	403 233 0302	ELECT 100U M 16V
C502	403 248 1905	ELECT 10U M 16V
C507	403 257 0807	ELECT 0.47U M 50V
C508	403 074 7607	CERAMIC 5600P K 50V
C509	403 248 1905	ELECT 10U M 16V
C510	403 248 1905	ELECT 10U M 16V
C511	403 248 1905	ELECT 10U M 16V
C512	403 152 4702	NP-ELECT 10U M 16V
C513	403 152 4702	NP-ELECT 10U M 16V
C514	403 257 0807	ELECT 0.47U M 50V
C515	403 257 0807	ELECT 0.47U M 50V
C516	403 069 9500	CERAMIC 0.01U Z 50V
C517	403 069 9500	CERAMIC 0.01U Z 50V
C518	403 069 9500	CERAMIC 0.01U Z 50V
C519	403 069 9500	CERAMIC 0.01U Z 50V
C520	403 072 1607	CERAMIC 0.022U K 50V
C521	403 069 1702	CERAMIC 1000P K 50V
C522	403 233 0302	ELECT 100U M 16V
C525	403 248 1905	ELECT 10U M 16V
C526	403 248 1905	ELECT 10U M 16V
C527	403 248 1905	ELECT 10U M 16V
C541	403 074 9502	CERAMIC 680P K 50V
C542	403 018 7403	CERAMIC 220P J 50V
C543	403 018 7403	CERAMIC 220P J 50V
C544	403 248 1905	ELECT 10U M 16V
C545	403 069 9500	CERAMIC 0.01U Z 50V
C546	403 069 9500	CERAMIC 0.01U Z 50V
C547	403 069 9500	CERAMIC 0.01U Z 50V
C548	403 074 6600	CERAMIC 560P K 50V
C549	403 069 9500	CERAMIC 0.01U Z 50V
C555	403 069 9500	CERAMIC 0.01U Z 50V
C556	403 166 6808	MT-POLYEST 0.1U J 63V
	403 243 6806	MT-COMPO 0.1U J 50V
C557	403 069 9500	CERAMIC 0.01U Z 50V
C558	403 075 0706	CERAMIC 6800P K 50V
C559	403 069 9500	CERAMIC 0.01U Z 50V
C560	403 075 0706	CERAMIC 6800P K 50V
C561	403 248 1905	ELECT 10U M 16V
C562	403 248 1905	ELECT 10U M 16V
C563	403 208 6308	ELECT 220U M 16V
C564	403 012 6808	CERAMIC 15P J 50V
C565	403 075 0706	CERAMIC 6800P K 50V
C566	403 013 3004	CERAMIC 150P J 50V
C567	403 166 8109	MT-POLYEST 0.22U J 63V
	403 263 5704	MT-COMPO 0.22U J 50V
C568	403 011 4904	CERAMIC 120P J 50V
C569	403 069 9500	CERAMIC 0.01U Z 50V
C570	403 248 1608	ELECT 47U M 16V
C571	403 069 9500	CERAMIC 0.01U Z 50V
C572	403 248 1608	ELECT 47U M 16V
C573	403 069 9500	CERAMIC 0.01U Z 50V
C574	403 248 1608	ELECT 47U M 16V
C575	403 166 8208	MT-POLYEST 0.18U J 63V
	403 264 1903	MT-COMPO 0.18U J 50V
C576	403 258 3401	ELECT 10U M 25V
C577	403 258 3401	ELECT 10U M 25V
C578	403 069 9500	CERAMIC 0.01U Z 50V
C579	403 008 7406	CERAMIC 10P D 50V
C580	403 199 3102	ELECT 1000U M 10V
C581	403 270 3601	MT-POLYEST 0.33U K 63V
	403 256 4608	MT-COMPO 0.33U J 50V
C582	403 058 3403	POLYESTER 0.015U K 50V
	403 179 3108	POLYESTER 0.015U K 50V
C583	403 270 3601	MT-POLYEST 0.33U K 63V
	403 256 4608	MT-COMPO 0.33U J 50V
C584	403 058 3403	POLYESTER 0.015U K 50V
	403 179 3108	POLYESTER 0.015U K 50V
C585	403 248 3701	OS-SOLID 47U M 25V
C586	403 248 3701	OS-SOLID 47U M 25V
C587	403 270 3403	MT-POLYEST 0.22U K 63V
	403 263 5704	MT-COMPO 0.22U J 50V
C588	403 270 3403	MT-POLYEST 0.22U K 63V
	403 263 5704	MT-COMPO 0.22U J 50V
C589	403 270 3403	MT-POLYEST 0.22U K 63V
	403 263 5704	MT-COMPO 0.22U J 50V
C590	403 270 3403	MT-POLYEST 0.22U K 63V
	403 263 5704	MT-COMPO 0.22U J 50V
C591	403 196 0203	ELECT 2200U M 35V
C592	403 196 0203	ELECT 2200U M 35V
C593	403 196 0203	ELECT 2200U M 35V
C594	403 248 3701	OS-SOLID 47U M 25V
RESISTOR		
R001	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R015	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R016	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R023	401 038 0800	MT-GLAZE 22K JA 1/10W
R024	401 038 0800	MT-GLAZE 22K JA 1/10W
R033	401 038 7601	MT-GLAZE 560 JA 1/10W
R035	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R036	401 038 7601	MT-GLAZE 560 JA 1/10W
R037	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R038	401 038 7601	MT-GLAZE 560 JA 1/10W
R039	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R041	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R042	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R044	401 038 7601	MT-GLAZE 560 JA 1/10W
R1001	401 037 5608	MT-GLAZE 10K JA 1/10W
R1002	401 037 5400	MT-GLAZE 1K JA 1/10W
R1003	401 037 5202	MT-GLAZE 100 JA 1/10W
R1004	401 037 5202	MT-GLAZE 100 JA 1/10W
R1005	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1006	401 037 5608	MT-GLAZE 10K JA 1/10W
R1007	401 038 0602	MT-GLAZE 220 JA 1/10W
R1008	401 039 0304	MT-GLAZE 820 JA 1/10W
R1009	401 038 5003	MT-GLAZE 390 JA 1/10W
R1010	401 038 7106	MT-GLAZE 510 JA 1/10W
R1011	401 038 7106	MT-GLAZE 510 JA 1/10W
R1012	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R1016	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R1021	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1022	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1023	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1031	401 038 3504	MT-GLAZE 330 JA 1/10W
R1051	401 038 6307	MT-GLAZE 470 JA 1/10W
R1052	401 038 6307	MT-GLAZE 470 JA 1/10W
R1053	401 037 9101	MT-GLAZE 180 JA 1/10W
R1054	401 037 5608	MT-GLAZE 10K JA 1/10W
R1055	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1056	401 037 5608	MT-GLAZE 10K JA 1/10W
R1057	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R1058	401 037 5202	MT-GLAZE 100 JA 1/10W
R1059	401 038 9001	MT-GLAZE 680 JA 1/10W
R1060	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R508	401 037 5400	MT-GLAZE 1K JA 1/10W
R509	401 038 2101	MT-GLAZE 2.7K JA 1/10W

Ref. No.	Part No.	Description
R510	401 037 5400	MT-GLAZE 1K JA 1/10W
R511	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R512	401 037 5608	MT-GLAZE 10K JA 1/10W
R513	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R514	401 037 5608	MT-GLAZE 10K JA 1/10W
R515	401 037 5202	MT-GLAZE 100 JA 1/10W
R516	401 038 7601	MT-GLAZE 560 JA 1/10W
R517	401 037 5202	MT-GLAZE 100 JA 1/10W
R518	401 038 7601	MT-GLAZE 560 JA 1/10W
R519	401 037 5202	MT-GLAZE 100 JA 1/10W
R520	401 037 5202	MT-GLAZE 100 JA 1/10W
R521	401 226 2609	MT-FILM 191K FD 1/10W
R522	401 038 6307	MT-GLAZE 470 JA 1/10W
R523	401 038 8103	MT-GLAZE 6.8 JA 1/10W
R524	401 037 5400	MT-GLAZE 1K JA 1/10W
R525	401 039 0502	MT-GLAZE 82K JA 1/10W
R526	401 039 0502	MT-GLAZE 82K JA 1/10W
R527	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R528	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R529	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R530	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R531	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R532	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R541	401 038 2002	MT-GLAZE 270 JA 1/10W
R542	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R543	401 037 5608	MT-GLAZE 10K JA 1/10W
R544	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R545	401 037 5202	MT-GLAZE 100 JA 1/10W
R546	401 038 2002	MT-GLAZE 270 JA 1/10W
R547	401 038 1807	MT-GLAZE 27 JA 1/10W
R548	401 038 6208	MT-GLAZE 47 JA 1/10W
R549	401 038 9001	MT-GLAZE 680 JA 1/10W
R559	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R560	401 038 6000	MT-GLAZE 43K JA 1/10W
R561	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R562	401 038 6000	MT-GLAZE 43K JA 1/10W
R563	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R564	401 038 2002	MT-GLAZE 270 JA 1/10W
R565	401 038 5300	MT-GLAZE 39K JA 1/10W
R566	401 094 1902	MT-GLAZE 10M JA 1/10W
R567	401 037 7800	MT-GLAZE 150 JA 1/10W
R568	401 037 5202	MT-GLAZE 100 JA 1/10W
R569	401 037 5202	MT-GLAZE 100 JA 1/10W
R570	401 037 5806	MT-GLAZE 1M JA 1/10W
R571	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R575	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R581	401 037 5400	MT-GLAZE 1K JA 1/10W
R582	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R583	401 037 5400	MT-GLAZE 1K JA 1/10W
R584	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R585	401 038 6208	MT-GLAZE 47 JA 1/10W
R586	401 014 4105	CARBON 1.5K JA 1/4W
R587	401 038 6208	MT-GLAZE 47 JA 1/10W
R588	401 014 4105	CARBON 1.5K JA 1/4W
R589	401 010 1504	CARBON 4.7 JA 1/2W
R590	401 010 1504	CARBON 4.7 JA 1/2W
R591	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R592	401 038 0800	MT-GLAZE 22K JA 1/10W
TRANSFORMER		
T002	610 037 5512	S COIL
T003	610 037 4522	S COIL
T541	610 208 6072	S BLOCK
COIL		
L1020	610 029 5292	PEAKING COIL
L541	610 029 6763	PEAKING COIL 2.2UHM
L542	610 029 6763	PEAKING COIL 2.2UHM
L543	610 029 6763	PEAKING COIL 2.2UHM
L544	610 029 6763	PEAKING COIL 2.2UHM

Ref. No.	Part No.	Description
DIODE		
D1005	407 071 4805	ZENER DIODE DZD3.3Z-TA
	407 089 1506	ZD 02CZ3.3Z(TE85R)
D1051	407 004 8009	DIODE DSB015-TA
D501	407 004 8009	DIODE DSB015-TA
D583	407 004 8009	DIODE DSB015-TA
D585	407 004 8009	DIODE DSB015-TA
MISCELLANEOUS		
A000	610 251 1123	ASSY,PWB,SIF E7MC
A1000	610 251 1147	ASSY,PWB,TEXT E7MC
A500	610 251 1130	ASSY,PWB,AUDIO E7MC
04	610 079 6355	TR MTG BRKT-A3MA
04	610 251 5923	V HEAT SINK E7LC
K0G	610 225 1692	PLUG 7P
K0H	610 221 7506	PLUG 6P
K10J	645 005 0077	SOCKET,PWB-PWB 15P
X001	421 002 4405	SAW F TSB5303
X006	645 003 2813	CERAMIC FILTER
X1001	645 006 3756	OSC,CRYSTAL 13.875MHZ
X501	645 003 3155	OSC,CERAMIC 427KHZ
X541	610 015 2885	CERAMIC FILTER
X543	610 233 0649	CRYSTAL OSCILLATOR

MAIN PCB UNIT<EB3>



Q301	
	VOLT. / WAVEFORM
B	--
C	--
E	--

Q431	
	VOLT. / WAVEFORM
B	0.2V / 1.0Vp-p HORIZ.
C	11.2V / 60Vp-p HORIZ.
E	0V

Q432	
	VOLT. / WAVEFORM
B	0.1V / 12Vp-p HORIZ.
C	- / 1100Vp-p HORIZ.
E	0V

CRT UNIT<EB3>

Q601		
	VOLT.	WAVEFORM
B	2.0V	2.8Vp-p HORIZ.
C	143V	91Vp-p HORIZ.
E	1.5V	

Q611		
	VOLT.	WAVEFORM
B	2.2V	3.4Vp-p HORIZ.
C	144V	100Vp-p HORIZ.
E	1.8V	

Q621		
	VOLT.	WAVEFORM
B	2.1V	3.2Vp-p HORIZ.
C	145V	94Vp-p HORIZ.
E	1.7V	

Q651	
	VOLT.
B	11.8V
C	0V
E	11.5V

Q640	
	VOLT.
B	1.2V
C	0V
E	1.8V

SIF UNIT<EB3>

Q011	
	VOLT.
B	5.9V
C	11.2V
E	5.3V

Q012	
	VOLT.
B	5.9V
C	11.2V
E	5.3V

Q013	
	VOLT.
B	1.8V
C	11.8V
E	1.2V

IC351	
	VOLT.
1	14.6V
2	0V
3	11.9V

IC352	
	VOLT.
1	12.6V
2	0V
3	8.0V

IC353	
	VOLT.
1	8.4V
2	0V
3	5.0V

Q101	
	VOLT.
B	1.2V
C	5.3V
E	0.5V

Q122	
	VOLT.
B	3.1V
C	0V
E	3.3V

Q124	
	VOLT.
B	2.6V
C	0V
E	3.3V

Q127	
	VOLT.
B	8.7V
C	2.6V
E	9.3V

Q128	
	VOLT.
B	3.8V
C	8.7V
E	3.2V

Q202	
	VOLT.
B	0.6V
C	0.1V
E	0V

Q701	
	VOLT.
B	0.4V
C	5.4V
E	0V

Q702	
	VOLT.
B	0.6V
C	0V
E	0V

Q731	
	VOLT.
B	4.4V
C	5.0V
E	5.1V

Q741	
	VOLT.
B	3.5V
C	7.9V
E	2.8V

Q771	
	VOLT.
B	4.3V
C	0V
E	5.0V

Q781	
	VOLT.
B	0V
C	5.0V
E	1.1V

Q783	
	VOLT.
B	0V
C	5.0V
E	0V

Q784	
	VOLT.
B	0V
C	5.0V
E	0V

Q800	
	VOLT.
B	0V
C	5.0V
E	0V

Q203	
	VOLT.
B	0V
C	0V
E	0V

Q205	
	VOLT.
B	0V
C	5.8V
E	0V

Q302	
	VOLT.
B	---
C	---
E	---

Q353	
	VOLT.
B	6.8V
C	29.0V
E	6.2V

Q381	
	VOLT.
B	5.7V
C	15.7V
E	5.1V

Q401	
	VOLT.
B	0V
C	7.9V
E	0V

Q434	
	VOLT.
B	0V
C	4.9V
E	0V

Q461	
	VOLT.
B	9.7V
C	0V
E	9.1V

Q462	
	VOLT.
B	0.5V
C	9.1V
E	0V

Q851	
	VOLT.
B	4.6V
C	0V
E	5.2V

Q852	
	VOLT.
B	1.4V
C	12.8V
E	0.7V

Q853	
	VOLT.
B	0V
C	0V
E	0V

Q854	
	VOLT.
B	0V
C	0V
E	0.6V

Q855	
	VOLT.
B	0.6V
C	11.8V
E	0.1V

Q856	
	VOLT.
B	0V
C	0.6V
E	0V

Q857	
	VOLT.
B	5.2V
C	11.8V
E	4.5V

Q861	
	VOLT.
B	4.5V
C	11.8V
E	3.9V

Q862	
	VOLT.
B	4.5V
C	11.8V
E	3.9V

Q820	
	VOLT.
B	0V
C	5.0V
E	0V

The service Precaution:
The area enclosed by this line (ـــــ) is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

COLOUR TELEVISION

SANYO **EB3-A** CHASSIS SERIES

SERVICE REF.NO. **C28EH25NB-00**

Part No. SKP20026 E7MC

Product safety notice:
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark ⚠ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.

Circuit diagram notes :
1. All resistance values are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μH.
6. Voltage readings taken with taken with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
7. Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Expression of capacitance and resistance in circuit diagram.

Capacitance (Example)
1000 C M 2000 D
- Characteristic
- Capacitance value (220pF)
- Allowable error (±20%)
- Kind (Ceramic)
- Rated voltage(1,000V)

Resistance (Example)
1/2 N 1 2
- Resistance value (1.2Ω)
- Allowable error (±5%)
- Kind (M.carbon)
- Rated wattage(1/2W)

J= ± 5%
K= ± 10%
M= ± 20%

T,A,U,D:Electrolytic
C,K,B:Ceramic
F:Mylar film
M,N:Polypropylene
Z:Metalized paper

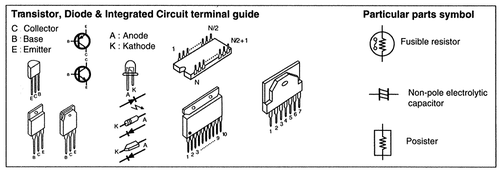
D:Carbon
N:Metalized carbon
S:Oxide metalized
W:Wire wounding
C:Solid

10. ■ Diode 1S1555 may be replaced with 1S2473, 1S2076 or DS472 unless otherwise noted.
■ Transistor 2SC536(O,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) or 2SC1815(G,O,Y) unless otherwise noted.
■ Transistor 2SA608(E,F) may be replaced with 2SA933(Q,R), 2SA564(QA,RA), or 2SA1015(O,Y) unless otherwise noted.

Transistor, Diode & Integrated Circuit terminal guide

C : Collector
B : Base
E : Emitter

A : Anode
K : Kathode



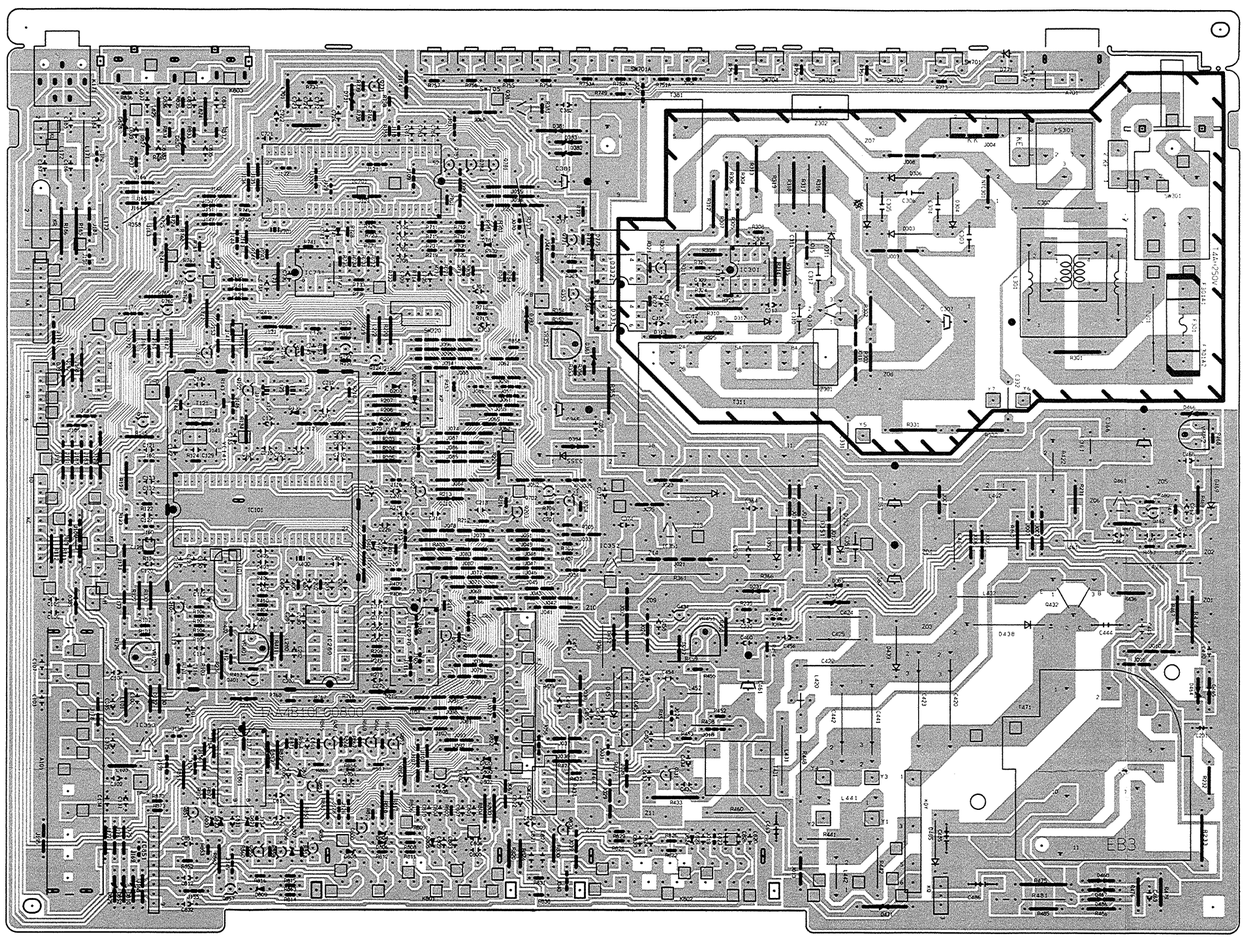
Particular parts symbol

Fusible resistor

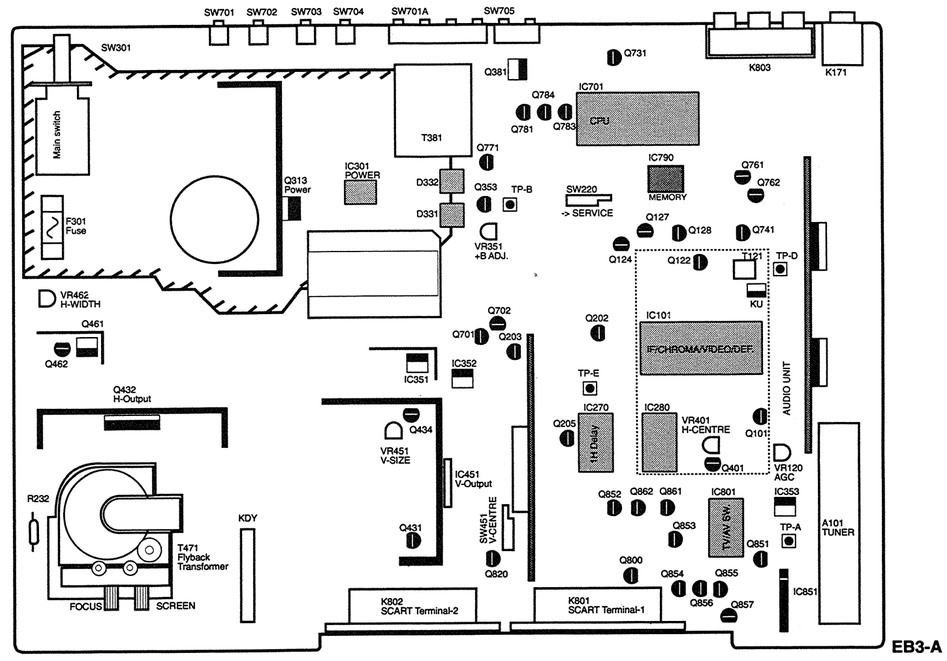
Non-pole electrolytic capacitor

Posister

Main Board (Circuit Side)



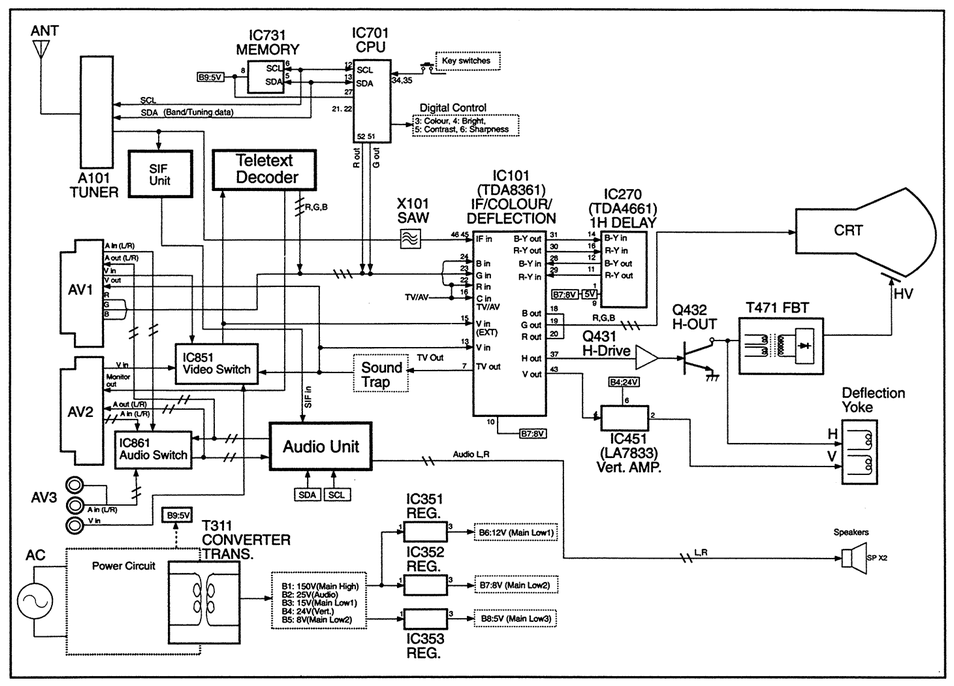
Main Board (Component Location)



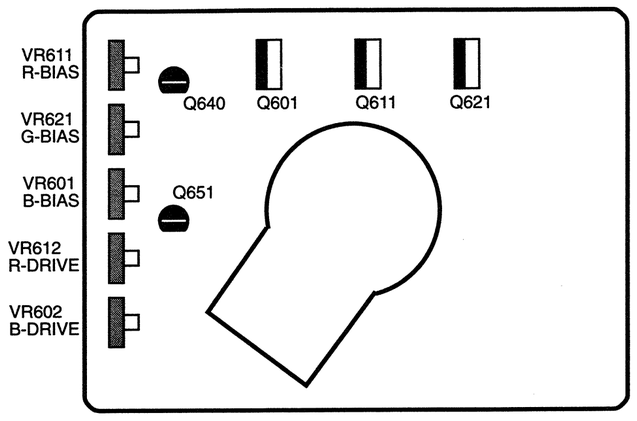
EB3-A

Block Diagram

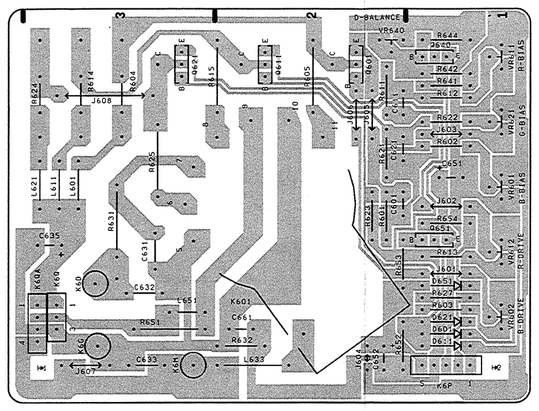
Note: This a general diagram covering all models



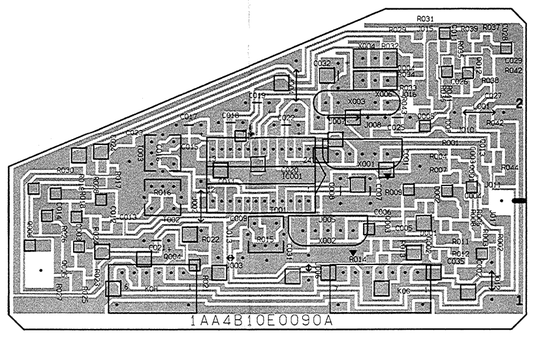
CRT Board (Component Location)



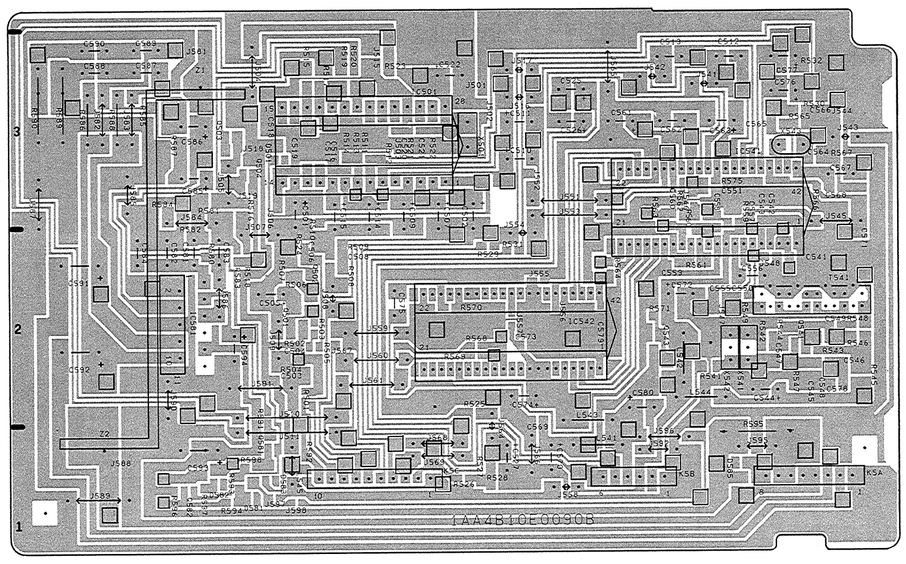
CRT Board (Circuit Side)



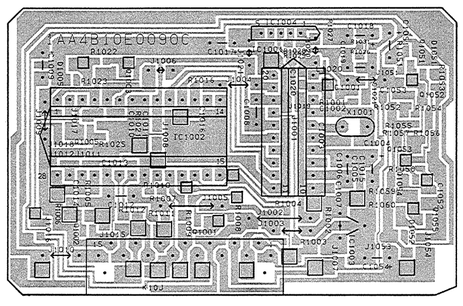
SIF Board (Circuit Side)



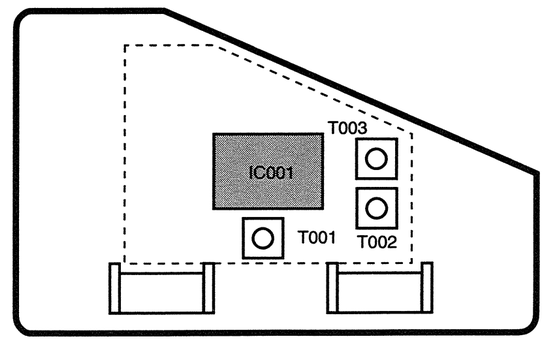
Audio Board (Circuit Side)



Teletext Board (Circuit Side)



SIF Board (Component Location)



AUDIO UNIT<EB3>

IC501

5.9V	1	28	11.6V
5.9V	2	27	6.8V
5.9V	3	26	6.9V
5.9V	4	25	0V
5.9V	5	24	1.2V
5.9V	6	23	5.5V
5.2V	7	22	0V
5.2V	8	21	4.5V
5.6V	9	20	0V
5.6V	10	19	4.7V
5.3V	11	18	5.2V
5.3V	12	17	5.2V
5.9V	13	16	5.2V
0V	14	15	5.2V

IC541

0V	1	42	4.7V
0.1V	2	41	3.0V
0.1V	3	40	2.7V
2.5V	4	39	11.6V
2.5V	5	38	2.5V
0V	6	37	2.5V
2.7V	7	36	2.5V
10.8V	8	35	2.9V
11.6V	9	34	2.5V
4.9V	10	33	2.5V
2.5V	11	32	5.0V
1.3V	12	31	4.9V
0V	13	30	2.5V
2.4V	14	29	2.5V
0V	15	28	4.8V
4.9V	16	27	4.9V
0V	17	26	0V
2.5V	18	25	0.3V
2.5V	19	24	2.2V
2.3V	20	23	0V
2.4V	21	22	2.5V

IC542

0V	1	42	2.4V
2.5V	2	41	0V
2.5V	3	40	2.5V
0V	4	39	0V
4.9V	5	38	0V
0V	6	37	0V
4.9V	7	36	2.3V
4.9V	8	35	0V
4.9V	9	34	0V
0V	10	33	0V
0V	11	32	4.9V
4.8V	12	31	0V
4.9V	13	30	0V
4.9V	14	29	0V
2.3V	15	28	2.4V
2.5V	16	27	2.4V
4.9V	17	26	2.1V
4.9V	18	25	4.9V
4.9V	19	24	0V
4.9V	20	23	0V
4.9V	21	22	0V

Q541	
	VOLT.
B	1.5V
C	3.3V
E	1.0V

Q543	
	VOLT.
B	5.6V
C	4.9V
E	4.9V

Q501*	
	VOLT.
B	11.6V
C	2.5V
E	0V

Q502*	
	VOLT.
B	11.6V
C	0V
E	11.6V

Q503	
	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q504	
	VOLT.
B	5.8V
C	11.6V
E	5.2V

Q581	
	VOLT.
B	0V
C	16.3V
E	0V

TELETEXT UNIT<EB3>

Q1001	
	VOLT.
B	0V
C	4.9V
E	0.1V

Q1002	
	VOLT.
B	0.1V
C	13.2V
E	0V

Q1003	
	VOLT.
B	4.3V
C	4.9V
E	4.9V

Q1051	
	VOLT.
B	1.8V
C	10.9V
E	1.3V

Q1052	
	VOLT.
B	1.8V
C	10.9V
E	1.2V

Q1053	
	VOLT.
B	2.5V
C	11.8V
E	1.9V

Q1054	
	VOLT.
B	10.8V
C	2.3V
E	11.5V

Q1055	
	VOLT.
B	2.3V
C	11.8V
E	1.8V

IC1003	
	VOLT.
1	8.4V
2	0V
3	5.0V

IC1001

1.7V	1	20	0V
1.5V	2	19	4.5V
1.4V	3	18	0V
0V	4	17	0V
2.2V	5	16	5.0V
2.6V	6	15	2.4V
4.9V	7	14	0V
3.0V	8	13	0V
0V	9	12	0V
1.7V	10	11	0V

IC1002

5.0V	1	28	0.1V
3.5V	2	27	0V
3.5V	3	26	1.4V
5.0V	4	25	1.4V
5.0V	5	24	0V
2.4V	6	23	0.8V
0V	7	22	0V
0V	8	21	5.0V
5.0V	9	20	0V
0V	10	19	0V
0V	11	18	4.6V
4.5V	12	17	4.6V
0V	13	16	5.0V
0V	14	15	0V